

Manufacturers Record

Exponent of America



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JUNE 26, 1924

Indications of Progress.

Two gigantic hydro-electric operations reported in the Manufacturers Record of last week indicate the magnitude of hydro-electric developments under way, and this shows how these great organizations are planning for expenditures, which mean a great increase in industrial and general business activity in the South.

The Alabama Power Company has undertaken a continuous plan of development for the construction of additional dams and reservoirs, and for the building of transmission lines and substations, as shown by its telegram to this paper last week, amounting to about \$119,000,000.

Another hydro-electric operation of vast extent is now being worked out by Eastern capitalists, calling for the expenditure of \$60,000,000 on the Susquehanna at Conowingo, Md. These plans, backed by Drexel & Co. of Philadelphia and their associates, look to the ultimate development of 500,000 hydro-electric power.

These two enterprises reported in one week are suggestive of the broadness of the development which is under way in the South and Southwest. For instance, the Southwestern Bell Telephone Company of St. Louis has asked for permission for the erection of a building 320 feet high and to cost about \$8,000,000. Lakeland, Fla., has voted over \$1,000,000 for public improvements covering a wide variety of municipal work.

A contract was let last week for a \$1,000,000 hotel at Durham, and recently for a department store in Baltimore to cost \$1,500,000; for a \$1,000,000 store and office building at Atlanta; for a \$1,500,000 hotel at Huntington, W. Va.; the Continental Gin Co. of Birmingham has let contracts for a plant which will cost about \$750,000. Work has begun on a \$1,000,000 apartment hotel in Tampa. A site has been bought in Baltimore for a \$500,000 terminal oil building. A sixteen-story hotel to cost \$1,000,000 is to go up in Dallas, while at Louisville a \$1,000,000 company has been organized to build commercial and bus bodies for automobiles.

A \$350,000 chemical and fertilizer plant was reported at Birmingham, and a contract in the same city for a \$1,250,000 hotel. Monroe, La., let contract for a \$500,000 courthouse. Atlanta interests are to build a \$1,000,000 hotel at Tampa, and an \$800,000 theatre and hotel building is to go up at Miami. A contract for a \$1,000,000 office building is to be let at Tampa. A twelve-story hotel in connection with the addition to a large office building is to be built at Birmingham at a cost of \$1,500,000. Miami, Fla., is to spend \$900,000 on paving and bridge construction, while a \$1,000,000 hotel was reported for Richmond.

These are merely a few items of outstanding importance picked here and there from reports in the Manufacturers Record of last week. They indicate something of the magnitude of the work under way and projected in the South. But these gigantic enterprises are hardly as indicative of what is going on in this section as are the thousands of smaller enterprises following in their wake, or possibly which are even leading in this procession of progress and development.

These facts are the tokens of progress, of coming increased activity. These vast enterprises are being established by men of judgment and of capital. They know that the South and the country at large are going forward steadily. They are not disturbed by a little spirit of pessimism that is abroad among some people. These things are being done by men of vision, and if all the people of the South and of the country had the same spirit of vision and of energy a wave of optimism would sweep over the land, drowning beneath its overwhelming waters every pessimist in the country.



*The Edwards Hotel, Jackson, Mississippi, U. S. A.
Wm. T. Nolan, Architect. J. W. Billingsley, Engineer. The Foundation Co., Contractor.*

Speed was essential in the building of the new Edwards Hotel. The construction contract was awarded February 6, 1923, and the 300 room hotel was officially opened for guests on December 29, 1923. The Foundation Company, as General Contractor, built this 13-story building, one of the finest in the South, in less than a year without sacrifice of economy or good workmanship.

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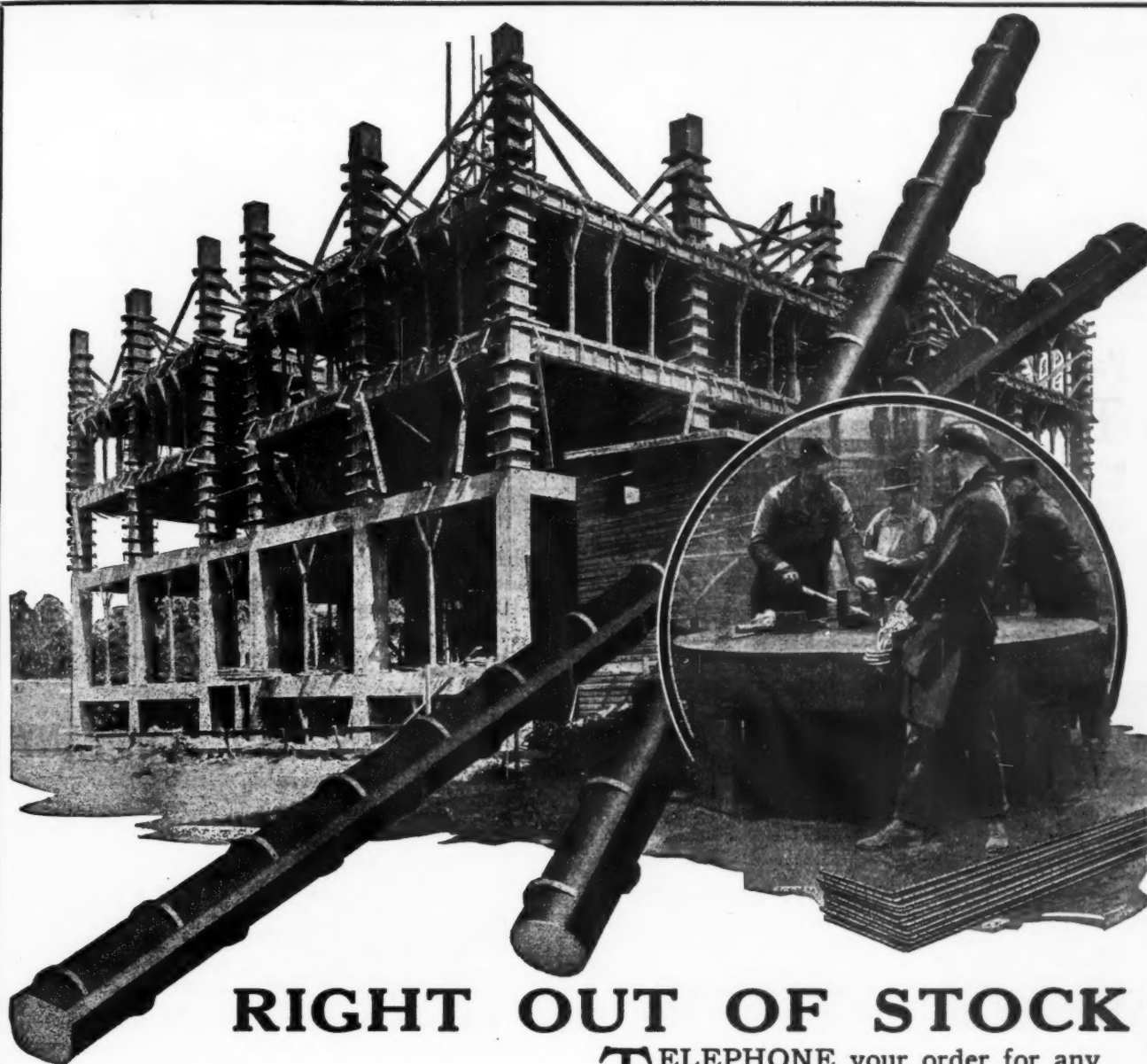
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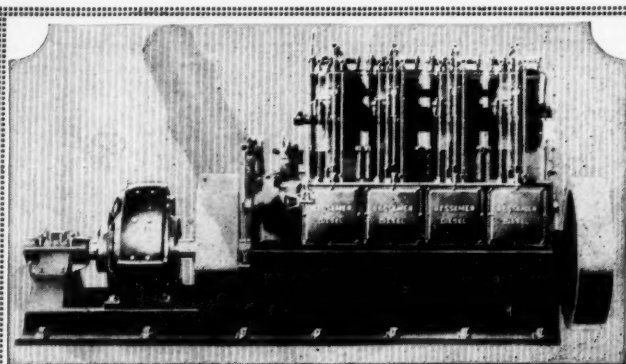
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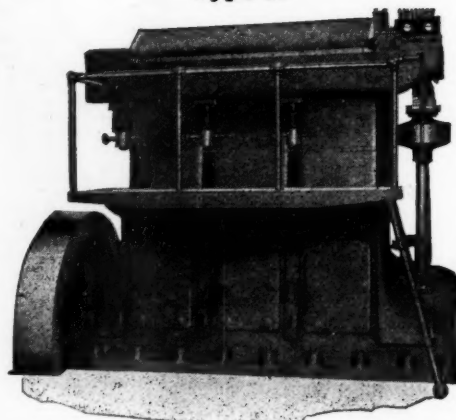
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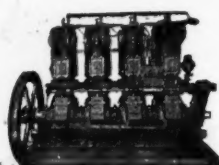
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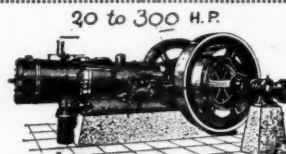
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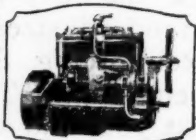
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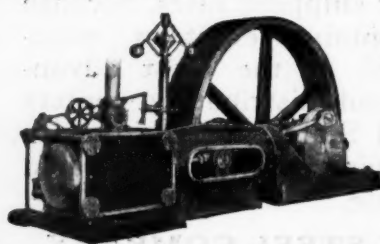
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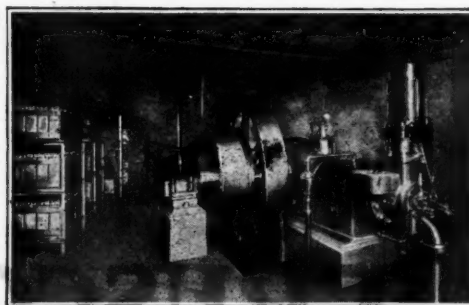
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(Continued in the next issue.)

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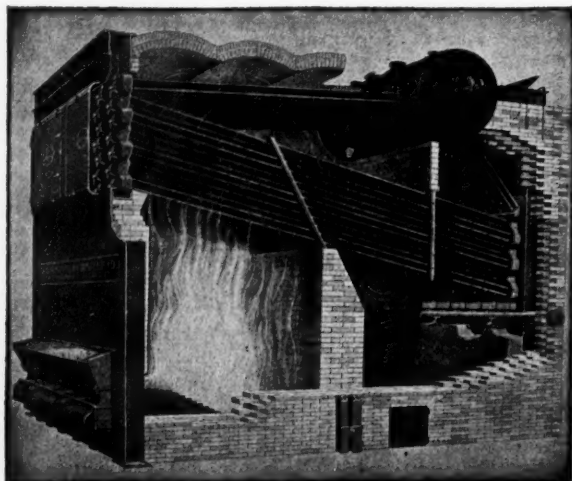
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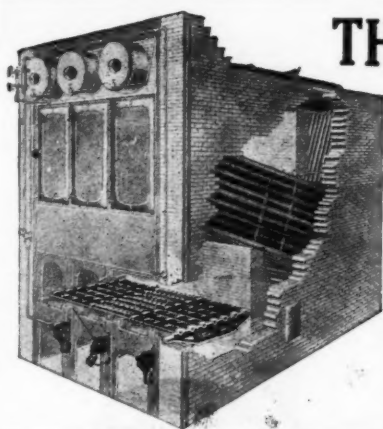
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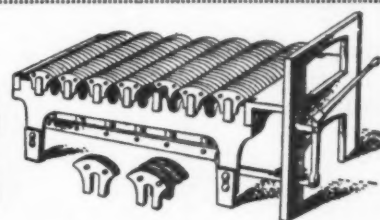
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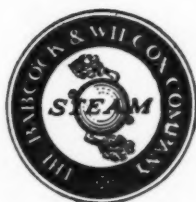
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EMPRESS GREASE CUPS—OIL CUPS

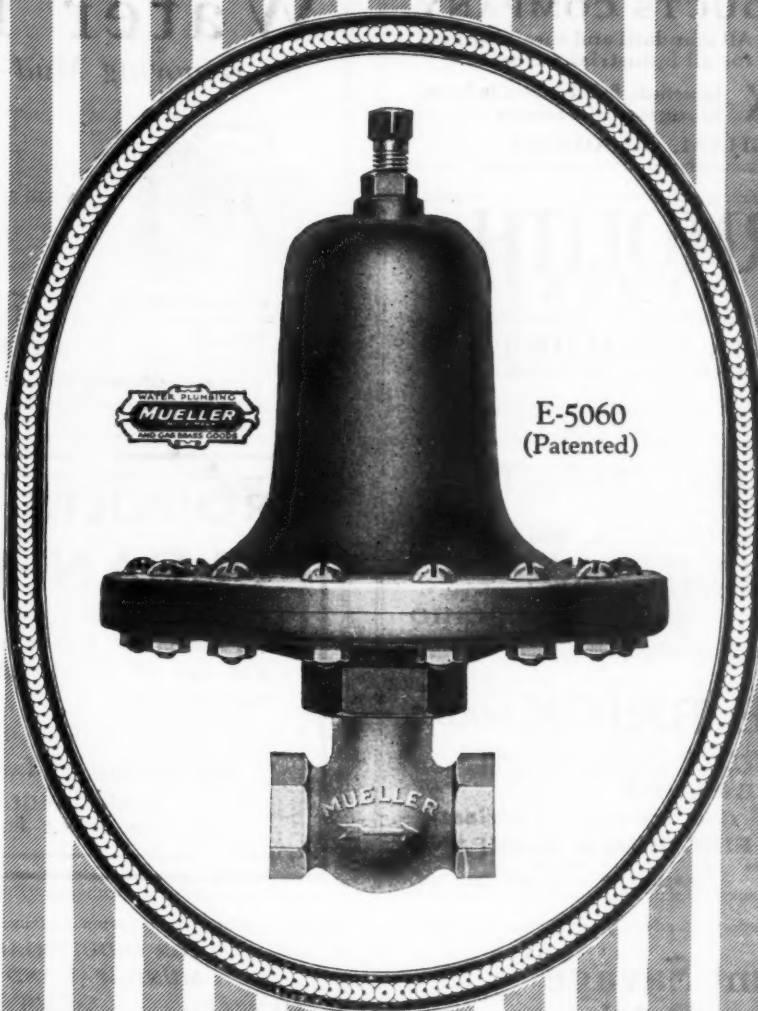
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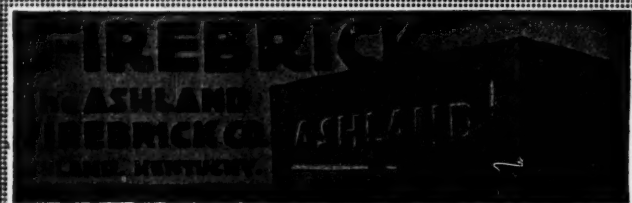
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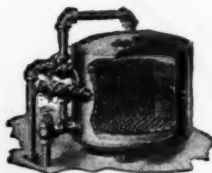
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Vertical Rapid Sand Filter for removing sediment, etc.

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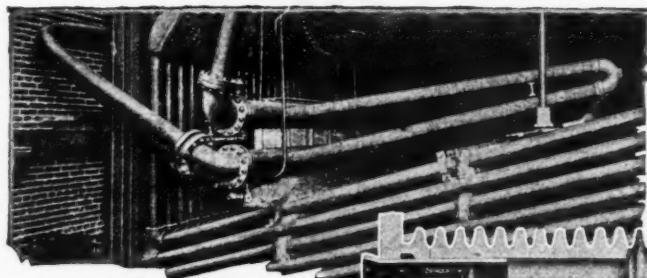


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"S. M. EXTRA" FIRE BRICK
FOR OIL BURNING FURNACES
 having undergone a more extensive process to withstand the high even temperature of oil burning furnaces, is a denser brick perfected to give maximum of service.
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Typical Foster Superheater installation in water-tube boiler

Standard in progressive plants

The unquestioned value of superheat as a means of helping power plant operation and reducing fuel consumption has in a large measure been established by the records of the 10,000 Foster Superheater installations, some of which have been in operation for 20 years. Foster Superheaters can be readily installed in existing plants, no matter what size and type of boilers may be used. We will be glad to give complete information on cost of installation and resulting economies without obligation to you, and we may be able to show you an unsuspected possibility of improving the operating conditions and reducing the fuel costs in your plant.

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FOSTER

The SUPERHEATER

with the extended surface

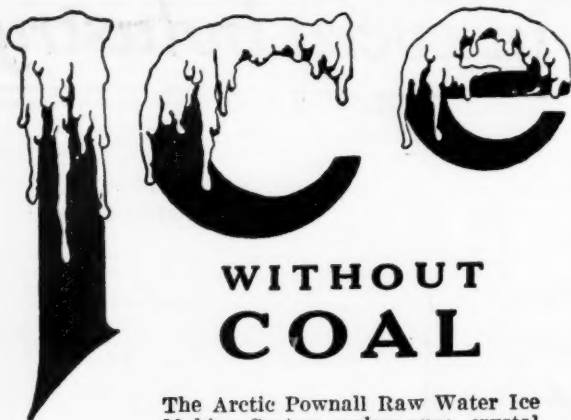
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Chocolate.....Hershey Chocolate Co.
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Woolens.....American Woolen Mills
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Soap.....N. K. Fairbanks Co.
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2. Four to six times more heat absorption surface as obtained from bare tubes.
3. Reserve heat stored for sudden demands.
4. Least space for desired superheating effect.
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6. Can be applied to any make or type of boiler.





WITHOUT COAL

The Arctic Pownall Raw Water Ice Making System makes pure, crystal clear ice, using any motive power.

The ice produced is superior to that made by any other system.

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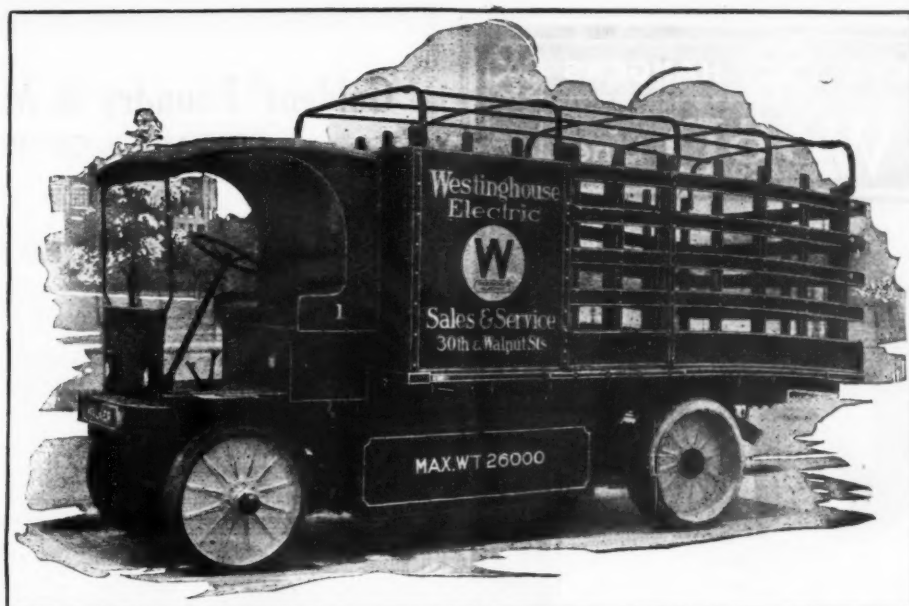
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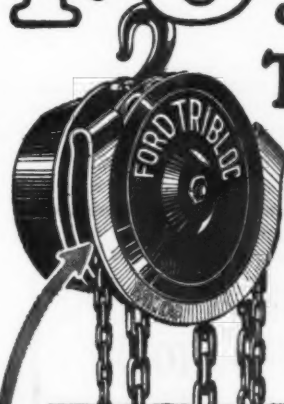
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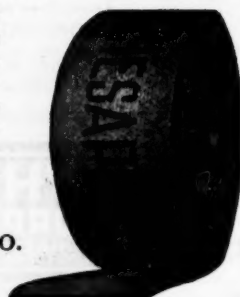
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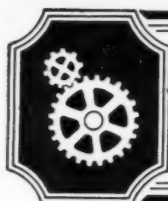
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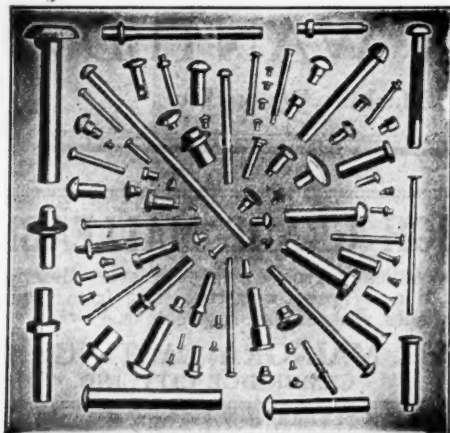
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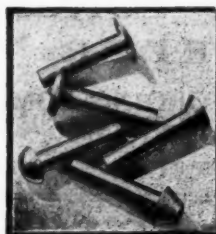
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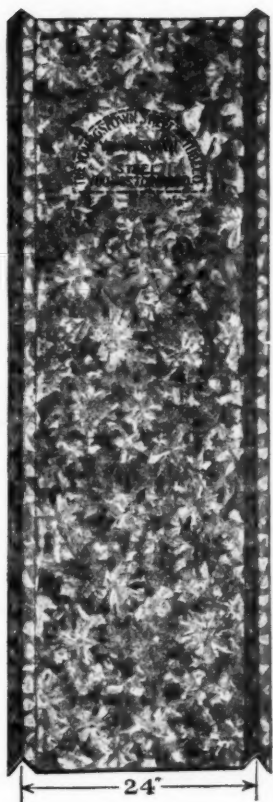
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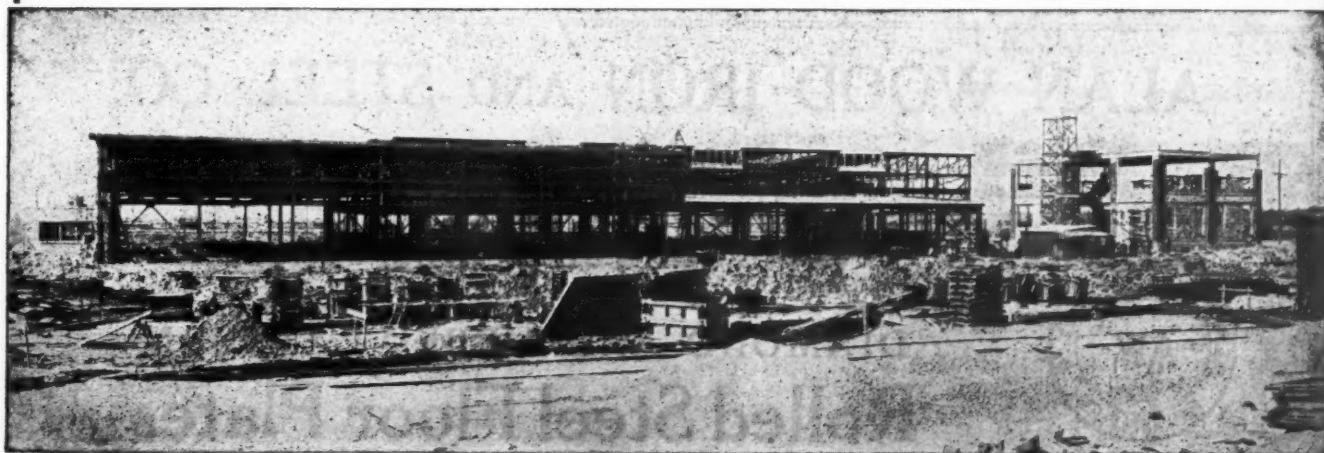
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Blaw-Knox Better Buildings owe their long life to the use of this rust-proof combination.

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The edges of the holes would not last as long as the completely protected surfaces.

Ingenious design has made it unnecessary to punch holes in Blaw-Knox roofs.

Hence, in Blaw-Knox Better Buildings, an *unbroken* galvanized coating over copper-bearing steel defies time and the elements.

In no other structure do you find this double protection from rust. Thirty years service is assured.

Your cost is low, due to engineer-

ing skill and quantity production.

Your Blaw-Knox Building is shipped from stock and so speedily erected that you get immediate use.

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Steel sash, too, may be used at will.

And when you need additional space order more standard units. They are available at the same low cost and in the same short time as were the original structures. Hundreds of users attest the merits of Blaw-Knox Better Buildings. Some own as many as seventeen; many own four, five and six.

Tell us what buildings you need—and for what purpose you will use them.

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Profitable borrowing has become recognized as good business practice. You are offered this convenience in financing your Blaw-Knox Better Buildings.

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In the purchase of no other structure are you offered the convenience of "Pay for Them as They Earn for You."

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Many who have read these two booklets say they have a better understanding of modern building methods. "The General Manager Solves the Building Problem" illustrates the practical advantages

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Manufacturers of Steel Structures of all classes, particularly

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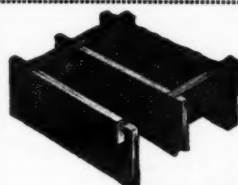
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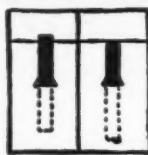
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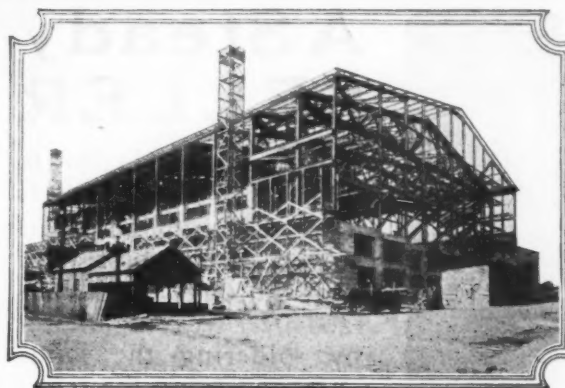
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It's not only necessary to supply your workmen with drinking water—give them good, clean, fresh water. Install R-S Drinking Fountains. Their "Vertico-Slant" feature assures you sanitation—for the lips cannot touch the nozzle.

Let R-S Fountains keep the men in your plant contented when the weather is the warmest and the "going" is the hardest. Investigate R-S Fountains and metal body coolers—they are *first for thirst*.

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BRASS AND STEEL WIRE WORK OF EVERY DESCRIPTION

Absolute Prompt Delivery

Bank Work Elevator Enclosures Elevator Cabs
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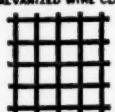
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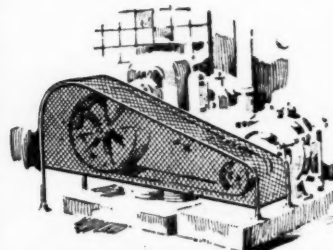


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"PresTeel"
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Standardized
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Adaptable to
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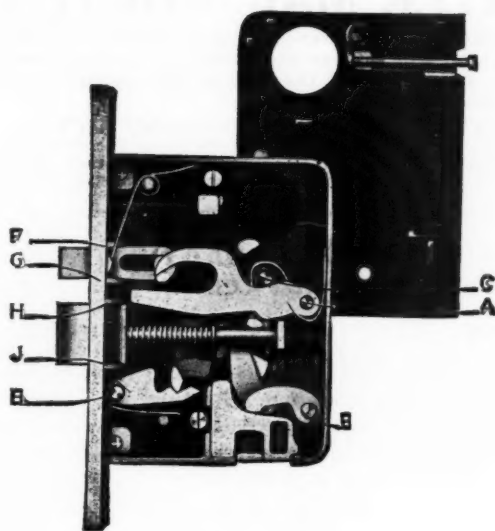
Von Duprin

TRADE MARK REG. U. S. PATENT OFFICE

Self-Releasing Fire Exit Latches

A Remarkable Lock

(Patent Applied For)



See Page 80
In the New Catalog

The new Von Duprin "click lock" shown here contains nine less operating members than the usual cylinder lock, yet it performs two functions entirely new in lock design.

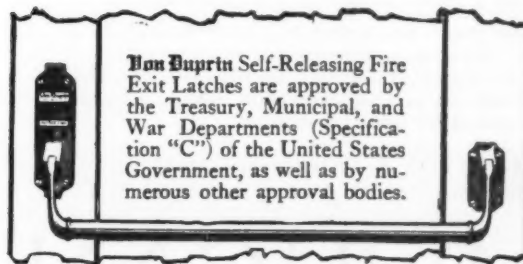
Starting with the door locked, a turn of the key to the first *click* permits operation from the outside by the thumbpiece or from the inside by the cross bar. A turn to the second *click* sets the mechanism so that the first operation by thumbpiece or cross bar locks the latch bolts in a retracted position, permitting "push and pull" operation of the door.

The operating members of this new lock are from four to five times as heavy as in the usual lock, and are made from solid manganese bronze or hard brass. Members A, B, C, and E are case hardened steel shock stumps, taking the place of the usual cast iron stumps.

As an extreme precaution against any interference with the action of the lock, the latch bolts are enclosed in housings (F, G, H, J) which prevent the admission of dust, dirt, matches or any other of the small articles which so frequently find their way into locks.

Altogether we believe that this new Von Duprin lock is the strongest, most reliable cylinder lock mechanism yet designed.

This is the second of a series of announcements showing recent improvements in Von Duprin devices.



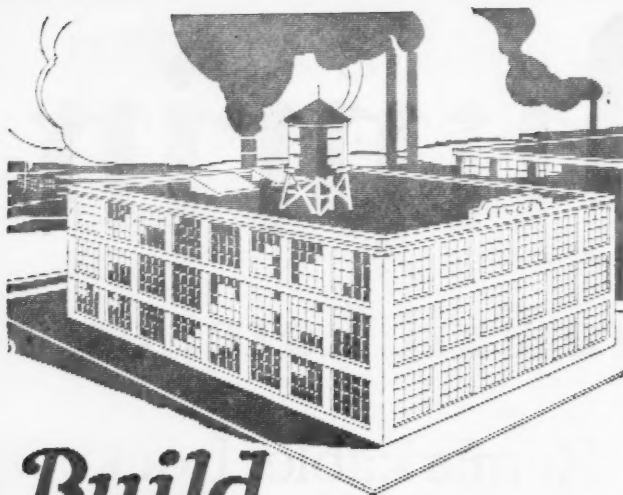
Von Duprin Self-Releasing Fire Exit Latches are approved by the Treasury, Municipal, and War Departments (Specification "C") of the United States Government, as well as by numerous other approval bodies.

VONNEGUT HARDWARE CO.

Indianapolis, Indiana.

Manufacturers

Complete details of Von Duprin latches may be found in our new Catalog 24-J, free on request. For specification data, see "Sweet's."



Build Greater Safety into your factory

WELL lighted workrooms are a real insurance to both employer and employee. Adequate natural lighting reduces financial and physical risks, and promotes health and cheerfulness among the workers.

Nervousness and fatigue are brought on early in the day by the extra strain which poor lighting imposes; accidents and spoilage are increased as a result.

Adequate glass areas will make assets instead of liabilities out of your workmen.

High Standards Mean High Quality

"The Best glass" is made in the largest melting furnaces in the world, and our improved mechanical processes give our glass greater tensile strength and higher modulus of rupture than other window glass, plate glass or rolled glass.

Our grading is the recognized standard for the United States, and is higher than the foreign standards.

"The Best glass" has a perfectly smooth surface, is uniform in thickness, contains no reverse curves, and is perfectly annealed and cuts evenly on both sides. It is carefully packed in well made boxes and each box is branded for your protection.

See Sweet's Architectural Catalog
for details of our grading standards.

AMERICAN WINDOW GLASS CO.

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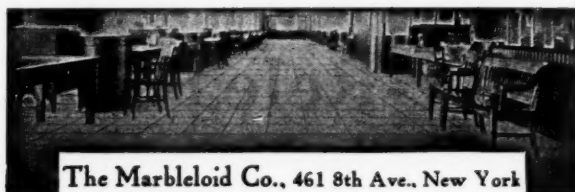
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Warm Air Heating System

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Produced from Southern Minerals for Southern Builders

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CHOCOLATES
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Enduring Uniform Strong Safe

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Henry, Virginia



For It's Always Fair Weather

It's always fair weather in the shop with Fenestra WindoWalls — and production can continue uninterrupted by storms outside.

For particular care is taken to make Fenestra weather-tight.

There are five places in a steel sash which require particular protection to prevent winds and driving storms from entering.

Four of these are around the ventilator; the head, jambs, sill and the butts upon which the ventilator swings. The fifth is at the mullion which joins two sash units.

How Fenestra design and construction affords the necessary weather-tightness at these points, is shown in the diagrams at the right.

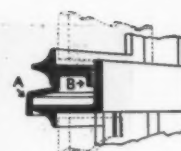
But a soundly designed and well-built product is but the starting

point of Fenestra responsibility to builders. In each local branch office is a complete engineering organization, trained in steel sash layouts, estimating and detailing, which serves the customer, through his architect or contractor.

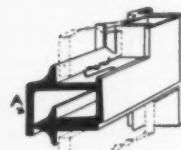
Prompt shipment from factories at Detroit or Oakland, California, plus warehouse stocks in more than a score of cities, is another feature.

Finally, the Fenestra Construction Company, with 10 Branch Offices and 27 experienced field superintendents, insures correct installation. These offices assume responsibility as soon as the sash leaves the factory and carry the job through to completion and final approval. We like to have you think of Fenestra as a service which produces a satisfactory window installation.

DETROIT STEEL PRODUCTS COMPANY, H-2248 E. Grand Boulevard, DETROIT
For Canada: Canadian Metal Window & Steel Products, Limited, 160 River St., Toronto
Factories: Detroit, Toronto and Oakland



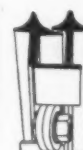
Head of Ventilator



Sill of Ventilator



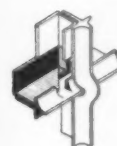
Butt



Jamb

At the Butt—The butt is protected against driving storms by overlapping of sections. As the ventilator closes, the weathering on the movable section fits down half an inch over that on the fixed section, (c) forming an overlap which sheds water and gives wide surface contact.

At the Jambs—At the jambs a springy steel section is used, which is drawn tight against the sash bar by the action of the cam latch at the sill and is really "sprung" into two-point flat contact when the ventilator is locked.



Sill



Mullion

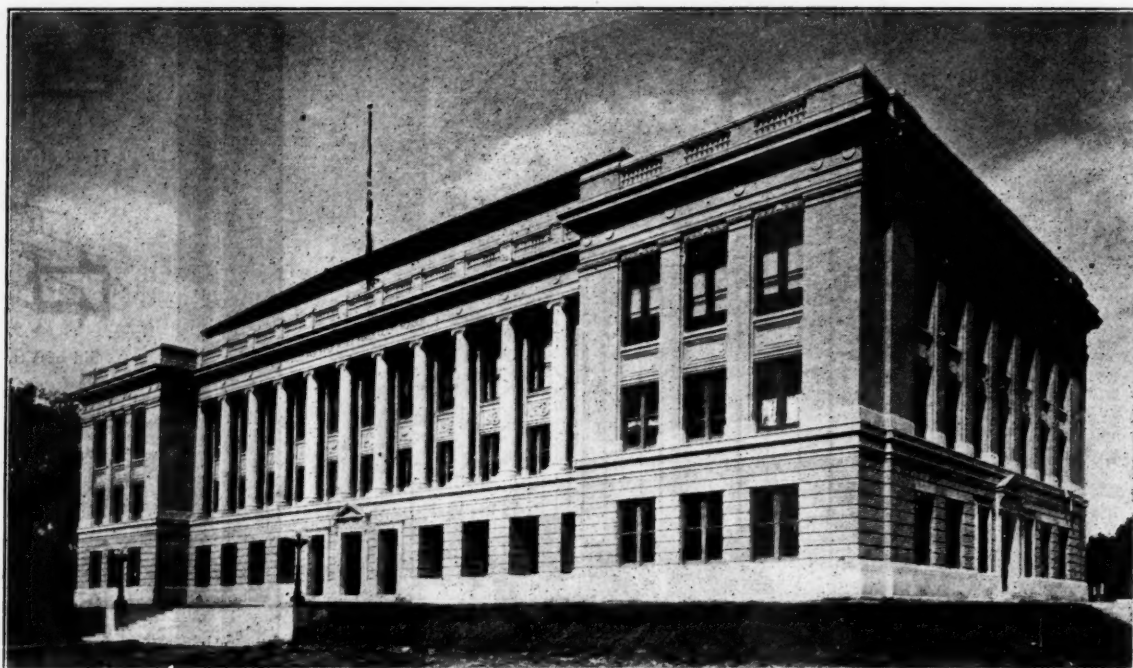
Condensation Carried Outside—Fenestra design provides an angle section at the sill, the ends of which are bent at right angles, so that no aperture is left at the lower corners of the weathering. Condensation, instead of seeping through into the building, is guided toward the exterior and escapes through weep holes cut through the sill bar of the sash near the jambs.

At the Mullion—Absolute weather-tightness is assured at the mullion, because of the wide, flat contact (a lap of one inch) between the mullion and the sash on either side.

Fenestra

The Original Steel WindoWall

This Tells
You It's
Fenestra



*East Baton Rouge Parish Court House, Baton Rouge, La.
Edward F. Nield, Architect Caldwell Bros., Builders*

Harmony and Economy!

The entrances, the base and second story belt courses and the column shafts are stone.

The second story spandrels, both decorative and plain, the column and pilaster capitals with their related lintels, the architrave, frieze panels, main cornice and the balustrades are all of gray unglazed Atlanta Terra Cotta.

The Terra Cotta harmonizes with the stone in color, jointing and scale.

The whole presents an excellent example of the economy made possible by using Terra Cotta when ornamental features are to be duplicated.

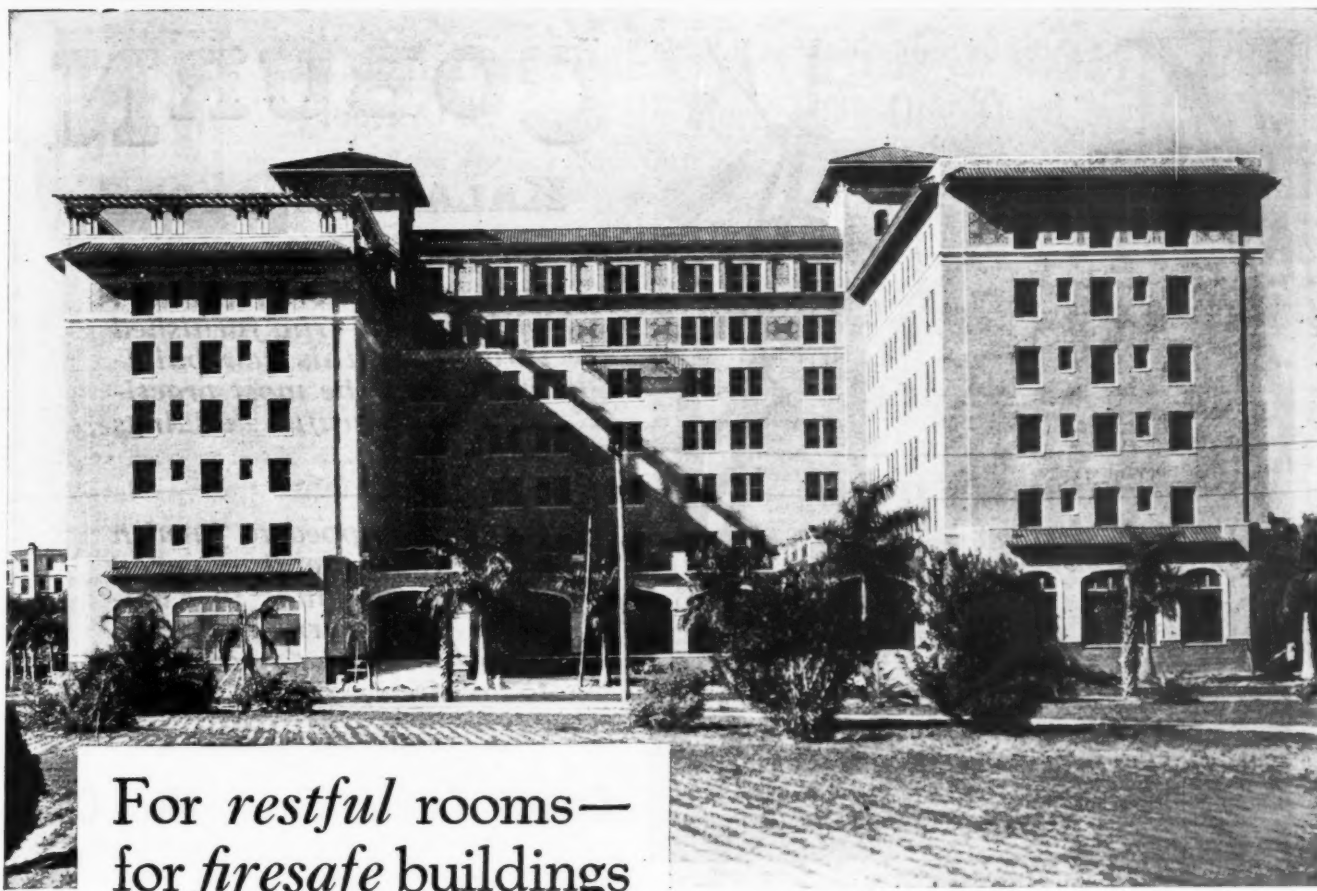


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PARTITION TILE



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Architect: G. Lloyd Preacher
6000 sq. ft. Pyrobar Partition Tile used*



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We are equipped to furnish high grade metal covered doors of all kinds in Kalamein iron, furniture steel, copper or bronze, to conform to architects' details.

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Standard Kalamein doors, jambs and trim, fireproof doors and fixtures.

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The service we give merits the orders we receive. The merit of Maryland Metal Buildings is unquestionable, and, therefore, demands public approval. This service, plus the economy and adaptability of the

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accounts for our success and is worthy of your commendation.

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How Bull Dog Floor Clips Cut Cost of Wood Floors Over Concrete More Than One-Third

Send for our "Six Quick Steps" Literature.

Comparison of Actual Cost Figures Based on 1,000 Square Feet of Slab Area in an Average Building

(Material Costs in Gulf and Coast states will be slightly higher because of higher freight rates.)

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570 Floor Clips, spaced 16" o. c., at \$50.00 per M. \$28.50
 Labor setting clips in concrete at \$0.00½ each. 2.85
 800 lineal feet, 2x2 lumber, 267 B. M. ft., at \$0.04 per B. M. ft. 10.68
 Labor placing 800 lineal ft. of sleepers at \$0.04 per lin. ft. 32.00

Total cost with Bull Dog Method per 1,000 sq. ft. \$74.03

There is a vast additional saving in reinforcing steel effected through the reduction in dead load of 18,000 pounds per 1,000 square feet through elimination of the concrete fill.

Cost of Concrete Fill and 2x3 Beveled Sleepers in Place

Using a 1:3:5 Mixture, 1¼ in. Thick.

4.7 bbls. cement, at \$3.00 bbl. \$14.10
 2.2 cu. yds. sand, at \$2.50 cu. yd. 5.50
 3.6 yards crushed stone, at \$2.50 cu. yd. 9.00
 Miscellaneous, at \$0.30 cu. yd. 1.40
 Labor, mixing and placing, at \$0.02 sq. ft. 20.00
 800 lineal ft. 2x3 lumber, beveled, 400 B. M. ft., at \$0.05 per B. M. ft. 20.00
 Labor placing 800 lin. ft. sleepers, at \$0.06 lin. ft. 48.00

Total cost of Concrete Fill Method per 1,000 sq. ft. \$118.00

Total Cost with Bull Dog Method . . \$74.03

Amount Saved per 1000 sq. ft. by Bull Dog Floor Clips, \$43.97

The Bull Dog Floor Clip Co.

Winterset, Iowa

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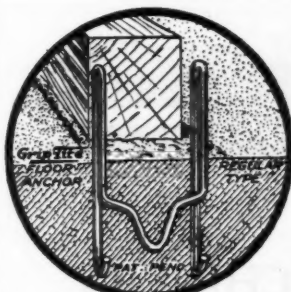
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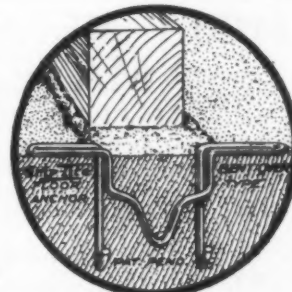
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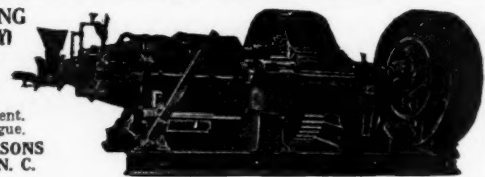
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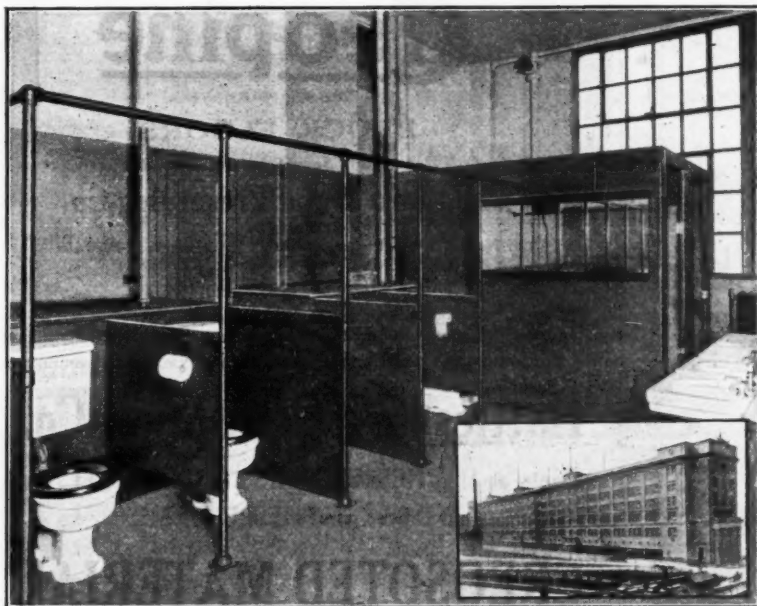
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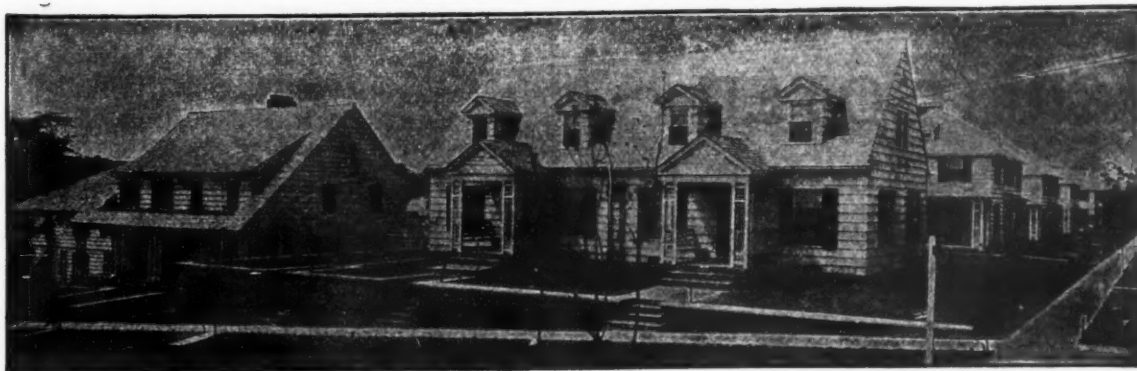
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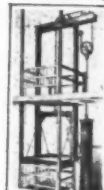
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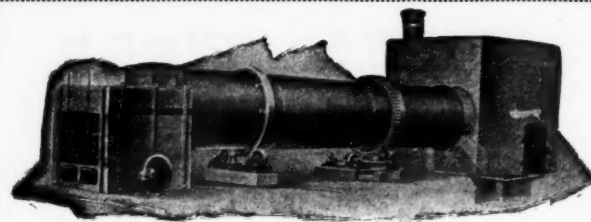
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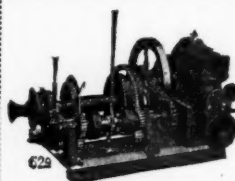
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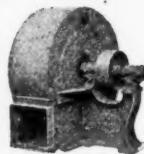
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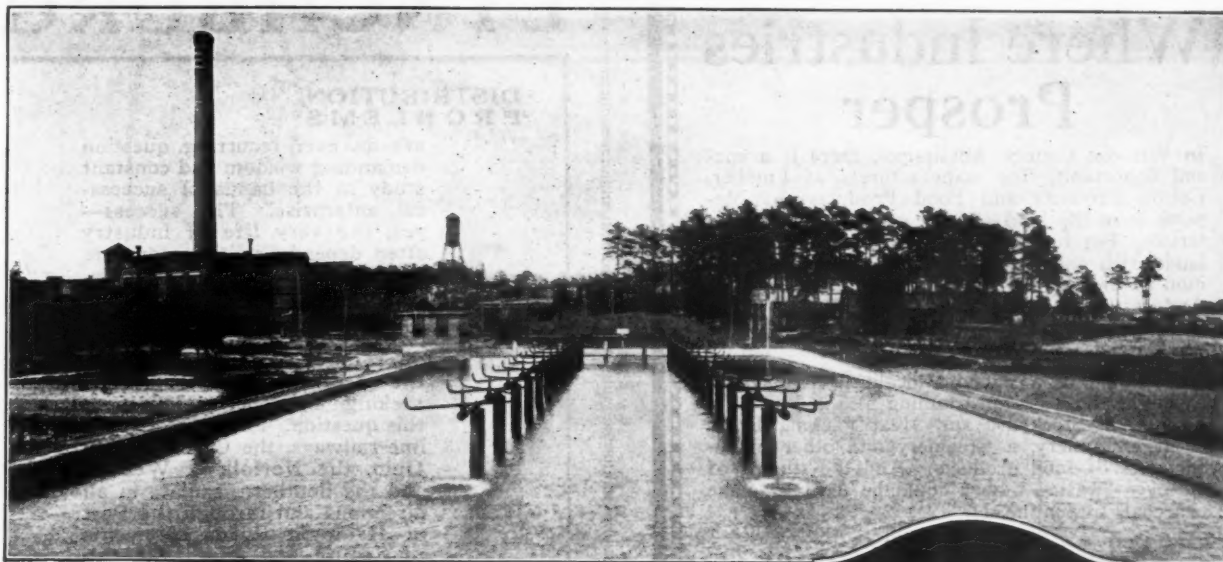
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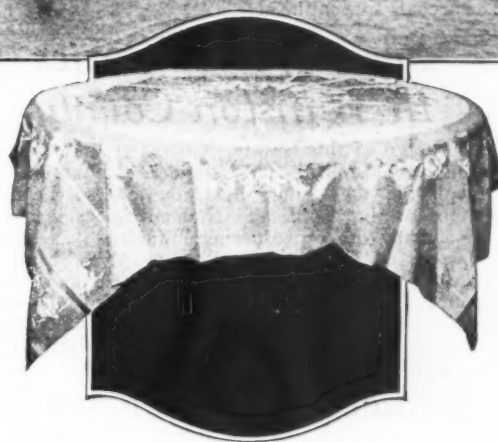
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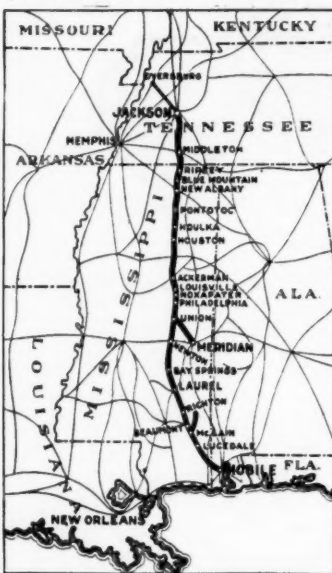
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Here is the relative proportion of male and female employees, engaged in manufacturing pursuits, in FIVE TYPICAL ALABAMA TOWNS:

	Population	Male Employees	Female Employees
Number 1	11,996	400	4
Number 2	18,674	2,107	7
Number 3	14,737	2,820	32
Number 4	43,464	3,182	501
Number 5	178,806	16,369	805

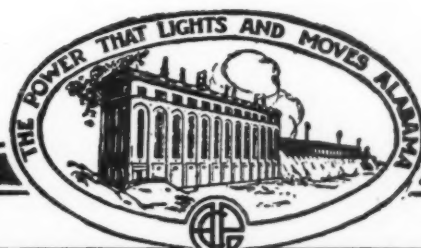
The presence of this great unused reserve of female labor which is eagerly seeking an outlet for participation in industry is due to the preponderance of manufacturing establishments which use only male labor.

There Are Many Other Alabama Towns Similarly Situated

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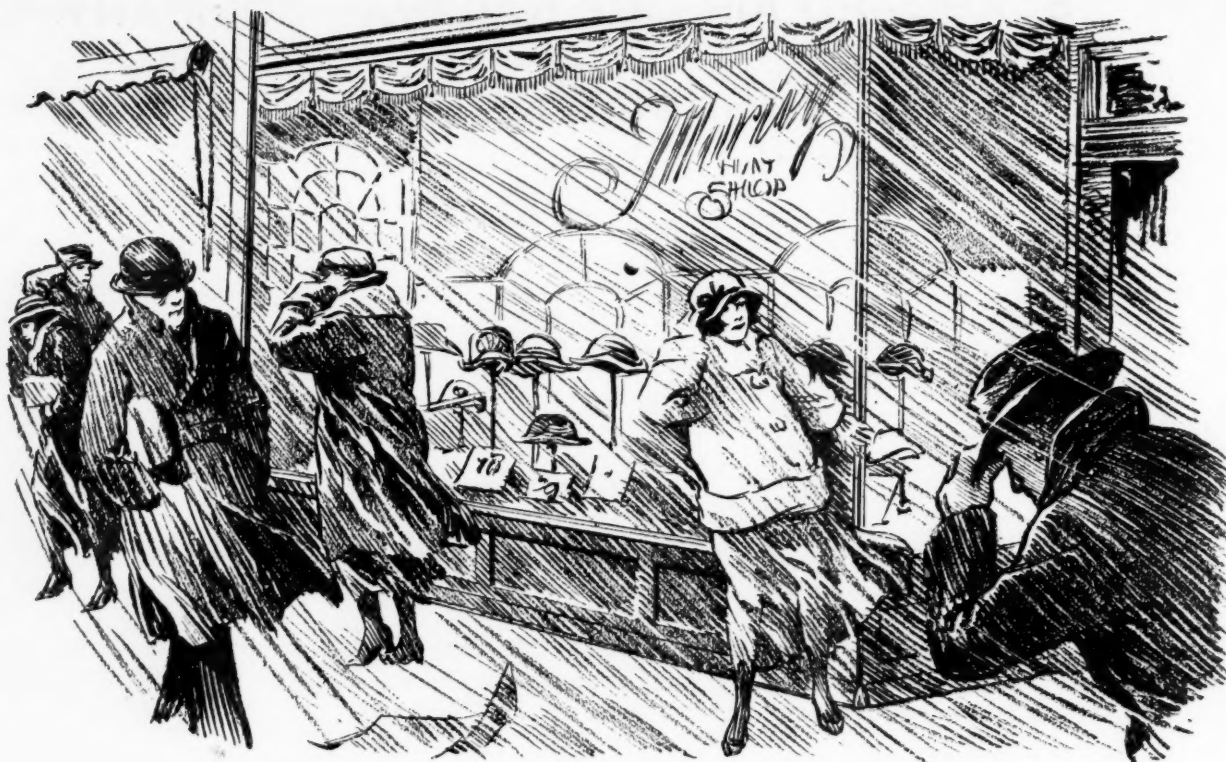
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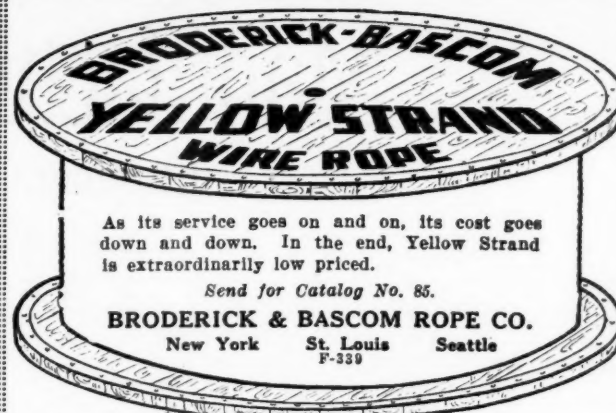
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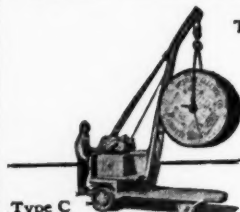
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"The South's Development": A Glimpse of the Past, The Facts of the Present, A Forecast of the Future.

SOME months ago, in the initial stage of the proposed Southern Exposition in New York, the MANUFACTURERS RECORD received very earnest letters from Mr. W. G. Sirrine, president of the Southern Exposition, and from the vice-president, Dr. Joseph Hyde Pratt, strongly urging us to issue a special edition or special publication of this paper in connection with the Southern Exposition.

The matter was thoroughly discussed from all angles, and a few weeks ago it was announced that we would undertake to issue a special publication in connection with one of our regular issues, to be entitled:

"THE SOUTH'S DEVELOPMENT"

A GLIMPSE OF THE PAST

THE FACTS OF THE PRESENT

A FORECAST OF THE FUTURE

We propose to make that publication surpass in its completeness anything which has ever been published on the material resources and progress of the South.

It may be interesting in this connection to present the letters received from Mr. Sirrine and Dr. Pratt, the letter of Dr. Pratt having been written on January 23 and Mr. Sirrine's on January 31. Mr. Sirrine's letter is as follows:

"In undertaking to hold in New York next January a Southern Exposition, in order to present directly to the people in the North and East the resources and development of the South, I realize that my associates and I have assumed a heavy responsibility. This exposition must be worthy of the great section in which we live. Much work will be involved. We desire to enlist the co-operation of all the active upbuilding forces of the entire South so that the exhibits will command the study and investigation of the millions whom we hope in this way to reach directly and indirectly.

"We appreciate deeply the hearty commendation which the MANUFACTURERS RECORD has given. Your endorsement will carry weight throughout the country. What you have said will be instrumental in arousing our section to the greatness of this opportunity. May I ask you to go still further?

"Will you undertake to publish a special edition of the MANUFACTURERS RECORD late next fall or early in the winter, to be devoted to the portrayal of the South's progress, its resources and its opportunities, in connection with the Exposition? It has been some years since you issued your remarkable special publication entitled 'The South, the Nation's Greatest Asset.' Its value cannot be over estimated.

"The publication at the time suggested of another great issue devoted to the story of the South would concentrate and crystallize the thought of the nation upon this section.

Moreover, it would be especially timely for you to get out such an edition during this year because this summer will mark the fiftieth anniversary of the work of Mr. Edmonds in the newspaper field. As nearly that entire period has been devoted to Southern uplifting, it is appropriate to celebrate this semi-centennial through such a special issue.

"You will be rendering a great service and you would have the sincere approval of the people of the whole country, who realize, as you have so long sought to maintain, that the development of the South means the enrichment of the nation."

Dr. Pratt's letter was as follows:

"Since I have been studying and investigating the possibilities of the proposed Southern Exposition to be held in the Grand Central Palace in New York city during the latter part of January, 1925, my thoughts naturally turned to the MANUFACTURERS RECORD as the champion exponent of the South, and I am led to make the suggestion that the MANUFACTURERS RECORD consider issuing some time before the opening of the Exposition a special edition devoted to the description of the resources, manufacturing industries, agricultural and horticultural industries, and, in fact, description of every phase of Southern life and endeavor. I believe such an edition would not only, of course, be of wonderful advantage to the proposed Southern Exposition, but would make a tremendous impression on the world in general as to the wonderful possibilities and opportunities in the South. It would also, I believe, have an unequalled advertising effect for the MANUFACTURERS RECORD. The edition could be made a classic on the South and would be kept as a directory and reference book by all libraries and all who are interested in any way in the South.

"I should be very glad indeed to give any suggestions and assistance that I can in carrying out such a plan if you decide to consider it favorably."

After considering these suggestions and finally deciding to adopt them, the staff of the MANUFACTURERS RECORD has been busily at work getting ready for the compiling of information which we hope to make invaluable for all time to come as to the resources and achievements of the South. Much work has already been done, but a vast amount remains to be done. The task is one upon which we could not lightly enter, for it means an amount of work somewhat staggering to contemplate. But we have enlisted for the job. It will be carried through to the very best ability of this organization. The articles already arranged for guarantee that it will be a publication invaluable to the South and indeed to the whole country for years to come.

It will be issued in advance of the date of the holding of

the Southern Exposition, and be given a very wide circulation throughout the entire country in the interest of the South. Though it will be entirely a separate publication from the regular issue of the MANUFACTURERS RECORD both in its reading matter and its advertising pages, a copy of it will be sent without cost to every paid subscriber who is on our books at the date of its publication. Arrangements are being made for giving it a wide circulation in other sections, and at the Southern Exposition the MANUFACTURERS RECORD will have a conspicuous booth in which "The South's Development" and other publications issued by this company in the interest of the South will be available for those who want to know what the South has been, what it is and what it will be.

Any details desired in regard to the matter by those who would utilize such an opportunity to advertise their city or community or their individual business interests can be had from the business office of this paper.

We can only say the editorial department will concentrate its best efforts and all the knowledge that it has gained about the South during the last forty to fifty years to make this work one which should be in every home and in every office in the South, and in every business office in the North and West wherever men want to know about this, the coming center of the world's industrial and general business activities.

MAKE THE WORLD SAFE AGAINST MOBOCRACY.

FROM all indications in the leading nations of the earth, including the United States, the late President Wilson's plea that the world "be made safe for democracy" has been almost unanimously granted. Ere long, the thoughtful man may fear, it will be absolutely necessary for the preservation of order—almost of civilization itself—to make the world safe against democracy, and, ultimately, its direct offspring, mobocracy. Most recent of the democracies firmly established by the people is that of France—never a republic, except in name, but now on the road, with England and the United States, to mobocracy. England, once an autocracy, has become a democracy; America, a republic, has become a democracy, and France, a combination of both, takes its place in the same category. From democracy to mobocracy is just one step, as the history of the centuries records.

One of the most profound and reliable authorities on our Constitution and on forms of government is Harry F. Atwood of Chicago, president of the Constitution Anniversary Association. In his brochure, "Back to the Republic," he gives the following definitions:

"In an autocracy, authority is derived through heredity, regardless of character, capacity or conduct. The people have no choice in the selection of their rulers.

"In a democracy, authority is derived through mass-meeting, the initiative, the referendum, instructed delegates, or any other form of direct popular expression.

"In a republic, authority is derived through the election by the people of public officials to represent them."

In a democracy, the representatives of the people merely register the will of the people, as directly instructed by the people themselves.

In a republic, the representatives are selected to exercise

their own best, conscientious judgment for legislation which, in their individual and uninstructed judgment, they believe to be for the best interests of the people.

In a democracy, the people's representatives are mere mouthpieces, or human phonographs, repeating mechanically and officially the words registered on the records of their minds by the people.

In a republic, the people's representatives are virtually free agents—the people merely say, "We are too busy—and in many cases not well enough informed—to handle our national and public affairs ourselves; we will elect certain men to handle our business for us and we will trust in their judgment and honesty."

These definitions and distinctions are given here in detail, with simplicity and emphasis, in order to make them perfectly clear.

Up to about 20 years ago the United States was a republic—the only real republic on the face of the earth. "A republic," says Atwood, "is a form of government under a constitution which provides for the election of—

"(1) an executive and

"(2) a legislative body, who, working together in a representative capacity, have all power of appointment, all power of legislation, all power to raise revenues and appropriate expenditures, and are required to create

"(3) a judiciary to pass upon the justice and legality of their governmental acts and to recognize

"(4) certain inherent individual rights.

"Take away any one or more of those four elements," he adds, "and you are drifting into autocracy. Add one or more to those four elements and you are drifting into democracy."

As deluded victims of selfish demagogues, the people of the United States have kept adding to the four elements mentioned till the republic has become a democracy, almost ripe for mobocracy. The direct election of United States Senators, the initiative, the referendum, the recall, the proposed recall of judicial decisions, the election of state judges and proposed election of Federal judges—such are a few of the popular additions to the four cardinal elements; such are the first steps of the American people in their venture from the century-old safety, progress and prosperity of their republic to the quicksands of democracy and mobocracy.

Possibly a reaction may develop and the people of America may see their danger before they have gone too far on the road to dishonor and destruction. As Atwood well says:

"The people of all ages have quite generally failed to recognize the merit of the work of the benefactors of the race and the prophets of their time, and have frequently paid popular homage to those who were finally revealed as impostors.

"They humiliated Westinghouse for discovering the air-brake.

"They laughed at Bell for discovering the telephone.

"They persecuted Columbus for discovering a new world and unfolding hidden truth.

"They made a wandering pilgrim of Confucius in China.

"They gave Socrates the cup of hemlock for philosophy now taught in our universities.

"They crucified Christ, who came to lead the way and set the standard of right living for mankind.

"The light finally dawned; the truth, although 'crushed to earth,' finally prevailed, and ultimately the importance of the work of the men who founded the republic will be recognized and understood."

In these days it is the popular fashion, set by many newspapers and writers and other ignorant persons or demagogues, to deride and ridicule the Constitution of the United States. It should be venerated and respected and studied with a reverence second only to that accorded to the Holy Bible.

THE CURSE OF DEMAGOGISM AS STATED BY GENERAL DAWES.

FOR years the MANUFACTURERS RECORD has urged the importance of putting business men at the head of this Government, which is the greatest business organization in the world measured by magnitude but not by wise management. But instead of doing that, business men have too often contented themselves to hurrah and yell for some politician merely because he belonged to their party.

The average politician knows very little about real business matters and the average business man does not know much more about the real inside workings of the political game which rules and sometimes nearly ruins this country, but the business man can learn and would do so if he had the opportunity. He is, however, so busy with his own affairs that he leaves politics to the politician and pays a heavy cost for doing so. If some of the great business leaders of the country, men of superb ability who know something of the inside of governmental or political affairs as well as the management of business affairs, men who unlike the average politician will not lie, could be put into public office and kept from the domination of politics, this country would soon have a very different story to tell to the world about its political and business affairs.

The Republican party at least has made one move in that direction by the nomination for the Vice-Presidency of Gen. Chas. G. Dawes, a business man of the highest standing, who has known the ramifications of national and international business, who handled a vast volume of business in France for the United States Army and who has recently returned from a study of the reparation situation in Europe. General Dawes is a business man, pure and simple, but he has known enough of the inside of politics not to have any fear of the politicians, and in that respect he sets an example to all the business men of the country. A few days ago when some of his neighbors called upon him to congratulate him upon his nomination, he made some statements which should sink deep into the heart of the people of this country. In this pledge to adhere absolutely to the truth regardless of the demagogues in his party or any other party he has set his standard by which to measure his work in the future and the work of all other officeholders. In this statement he said:

"I know you want me to say something, and yet, upon such an occasion as this, it would be unseemly in me to speak in a partisan manner. But it occurs to me that there is one subject which may be called political, and yet is thoroughly non-partisan—a subject upon which all good citizens, whatever may be their party, must agree—and that is the curse of demagoguery in political discussions in this country.

"To such an extent has grown this evil among the politicians of both parties that the real facts and the economic principles involved in questions of national policy are continually obscured by a dense and putrid fog bank of demagogic argument, designed simply for the purpose of forwarding selfish personal political and group interests.

"I have recently returned from Europe, where I have seen in prostrated industry and human suffering the effects of five years of demagogic political appeals to the passions and prejudices of the different peoples as distinguished from appeals to their reason and common sense. To the very brink of the abyss has Europe been brought by this method of treating serious questions, involving great elemental and economic principles. To save herself she has abandoned the demagogue and returned to common sense.

"An orgy of demagogism has been running rife in the world, and we here in the United States are feeling its devastating effects. All good Republicans and all good Democrats who put their country above their party demand the beginning of an era of common-sense in public discussions.

"As human beings, whatever may be our party, we are bound to differ on many subjects; but as good citizens we can unite to demand from those who represent us in political debate that they present our differences honestly and from the standpoint of truth—not from the standpoint of passion and

prejudice. The man who distorts facts—the man who preaches pleasant doctrines to one portion of our people and another pleasant but absolutely inconsistent doctrine to another portion, is a menace to the safety of our fundamental institutions. As good citizens irrespective of party, we must demand from our political leaders a strict adherence to the truth, including disagreeable truth.

"In the campaign which is before me, and as a duty which I owe not simply to a party but to the citizens of the United States, I pledge myself to adhere to the truth and to the common-sense conclusions to be drawn therefrom.

"As to the demagogue on the stump, whatever may be his party, I want it distinctly understood that in the coming campaign I ask no quarter and will give none. In this, at least, I know that I will have the sympathy of all good citizens, irrespective of party, and I hope our political opponents will follow the same course. Let common-sense reign.

"When this campaign is over, whatever may be the result, I want to come back to my home town still holding the respect of my neighbors."

Will the Democrats be wise enough to match the nomination of General Dawes by a business man of equal ability, equal truthfulness, equal contempt for the demagogues and equal determination to fight in the open and to follow the truth wherever it may lead?

RAPID SHIP UNLOADING AT SAVANNAH.

W. H. WRIGHT, superintendent of the Central of Georgia Railway Company, Savannah, writing under date of June 11 in regard to some information recently published in the MANUFACTURERS RECORD, furnished by the Wilmington Chamber of Commerce as to the celerity in handling a particular cargo at the latter port, says:

"Without desiring in any way to detract from the splendid record of Wilmington, N. C., in discharging a cargo of nitrate of soda, as set forth in your issue of May 29, may I call your attention to the fact that Savannah, with a record of 61 long tons per hatch per hour, has an actual performance that is not duplicated by Wilmington or by any other port that I know of?

"You quote the Wilmington achievement of unloading 4092 long tons of nitrate of soda at the rate of 51.1 long tons per hatch per hour.

"On May 19, 1924, the same ship, Tilthorn, was at Savannah terminals of the Central of Georgia Railway and our forces unloaded 3050 long tons of nitrate of soda in 10 working hours. This is on an average of 61 long tons per hatch per hour. It followed a record of the previous day when the discharge was 59.15 long tons per hour. The work was done under the direction of Richard O'Donovan, who has been stevedoring vessels in Savannah for the past 25 years. The gang of workmen moved 40,985 bags of nitrate of soda during the 10 hours.

"The cargo was unloaded, then loaded in cars and moved on the Central of Georgia to various points in Georgia, Alabama and South Carolina on the same day. This is considered probably the quickest dispatch given such a movement on the Atlantic Coast.

"So far as I know, the record of 61 long tons per hour per hatch has not been approached by any other port and gives our friends at Wilmington a mark to shoot at."

We are glad to see this kind of friendly rivalry between ports of the South, for such rivalry and competition means good for all ports. Whenever a community can be stirred to larger achievements by reason of the competition of some other community the whole situation is benefited. The development of port facilities in the South is vitally important in enabling this section to handle expeditiously and cheaply inward and outward-bound traffic. Celerity of loading and unloading means a great deal to ships, and shippers and consignees.

We hope Wilmington and other Southern ports will now be able to match what was done at Savannah, or surpass Savannah's record, and in that way stir Savannah to do still greater things.

"STATES' RIGHTS" IN PROHIBITION AND IN HUMAN SLAVERY.

Trio Manufacturing Co.

Forsyth, Ga.

Editor Manufacturers Record:

I notice you have lost one subscriber on account of your views on the prohibition question and your comment. I don't think we should be extreme on this, as it's a moral one on which all have the right to think for themselves.

We claim to be under a democratic form of government and to believe in states' rights. The prohibition law is an autocratic law; was never an issue before the people; therefore, hard to enforce. States' rights would have been to have left this question to each state. Whether the law has been of moral benefit is a debatable question in large cities; it may in rural places. The lawlessness is great. If we could have a law that would produce temperance, it would be much better. There being no way to enforce such if it were enacted, we have to leave this question with our Creator, who gave us the moral law.

Then let us not criticise one another for our different views, but persuade all to study to know what is best for the country and for each other. If you believe in prohibition and I don't, let us not fall out about it, for we be brethren. This kind of spirit will do more good than extreme declarations do.

J. W. Newton,
President.

The prohibition question as it now stands has long since ceased to be merely a moral question. Prohibition is in our Constitution; it is part of our national life, and the man who violates the prohibition law is doing the utmost in his power to break down all law, moral and statute.

Mr. Newton is wrong in saying that prohibition was never an issue before the people. For more than fifty years the fight for prohibition has been carried on unceasingly in this country. One state after another adopted prohibition. Every man of intelligence in the country must have known for the last forty or forty-five years that the fight would be carried on until victory was achieved.

The question as to whether it is an autocratic law, or whether it should have been left to states' rights, is a question settled between 1861 and 1865. The South held that slavery was purely a states'-right matter. The final decision was against that assertion, and today we presume there is no man in America who would, for one moment, favor slavery, and yet millions of people insisted that slavery was right, morally and legally. Indeed, many taught that slavery was a Divine command and that slave owners were doing the Almighty's work in owning and caring for slaves. Men learned in law argued in favor of slavery from the moral and legal standpoint. Ministers of the gospel preached in favor of slavery, and one of the foremost ministers of the South wrote a book on the subject, which is a stronger argument in favor of slavery than any argument that can possibly be raised in favor of the liquor interests or the control of the liquor interests by the states and not by the National Government.

We are sure that Mr. Newton would not for one moment argue in behalf of slavery, but there are many arguments in favor of human slavery as it existed prior to the Civil War far stronger, from every point of view, than any argument that can be advanced against prohibition. Indeed, slavery had some redeeming features. Millions of people, fresh from the barbarism of Africa, were civilized, and hundreds of thousands of them became most devoted and consecrated Christians. This, slavery at least had to its credit, but the liquor traffic, on the other hand, has only a record of wrecked lives, wrecked homes, destroyed manhood and womanhood, lost souls, impoverished woman and children, with millions sent to untimely graves as drunkards or killed by drunken men.

Lying on the writer's desk by the side of the letter from Mr. Newton is a statement which comes from New York in

regard to the life and exploits of the "bobbed-hair" girl bandit, whose robberies of many stores and offices in broad daylight gave her the front-page space in all the daily papers of the country for several weeks. Here is the story of her life, and it could be duplicated in the story of millions of other lives in this and other countries:

"For the past several months Brooklyn has been excited over the exploits of a 'bobbed-hair' girl bandit, Celia Cooney, who figured in daring hold-ups and who handled a pistol with the skill of a professional. Finally, she was brought to justice and is now doing time in the state prison.

"Celia Cooney never had a chance. Liquor robbed her of a chance which was given to other children more fortunate than she.

"When she was sentenced with her young husband to not less than ten or more than twenty years in prison, the judge who imposed sentence had before him the probation officer's report. This report should be filed in the archives of the Association Against the Prohibition Amendment. It should be given to Dr. Nicholas Murray Butler of Columbia University, to Governor Al Smith, to all who give comfort and aid to the liquor traffic in its attempt to come back. It is an arraignment of the saloon, an exposition of the effect of alcohol on the human race.

"According to this report of Mrs. Marie Mahon, probation officer, Celia was born twenty years ago in a basement in the lower East Side of Manhattan. Her mother can neither read nor write, her father has been a habitual drunkard all his life. He has never worked steadily and never supported his family. What little support there was came through the mother. The children were neglected; they slept in coal holes at night and were sent out to beg in the daytime. When neighbors or relatives took pity on them and gave them clothing, it disappeared, and any money realized on it was used by the father for drink. The father's record is as follows:

"Summoned to court and ordered to keep sober and send his children to school.

"Sent to the penitentiary for three months.

"Arrested several times for illegal voting and fighting in saloons.

"Beaten up on several occasions and taken to the hospital.

"The home was the product of the saloon and Celia was the product of her environment—she was probably subnormal, she was underfed, abused, neglected. It is the old story—and this child (for she is little more than a child) pays the price today, as the child has always paid the price of the sins of the parents.

"We cannot help Celia Cooney now. The law will have to take its course with her. But we can prevent the perpetuation of the institution which created Celia's environment and made her an outcast. We can and have redeemed the homes of the poor from the blight of drunken fathers, husbands and brothers. We can fight with the last ounce of our strength for the enforcement of the prohibition laws which are giving the children of the nation the right to be properly born and bred and brought up. We can remind the nullifiers of the Eighteenth Amendment and the selfish 'personal liberty' advocates of the way in which this girl's father exercised his 'personal liberty' and how his daughter in consequence will serve out in shame and ignominy her ten to twenty years in prison."

Will Mr. Newton and those who take his view on the subject, as expressed in his letter, put alongside of their own opinions the story of Celia Cooney and bear in mind that they are their brothers' keepers; ask themselves whether they are willing to be responsible for legally encouraging the liquor traffic or of upholding the claim of those who denounce the prohibition law as it now stands? Will not these men, realizing the danger of the breaking down of all law

by the criticisms which are made against the prohibition law, stand for the moral welfare of this country and do their utmost to uphold the prohibition law? Let us again remind Mr. Newton and all others that no argument which is brought against the prohibition law or its rigid enforcement can be as strong as the arguments that were advanced in defense of slavery, both on legal and moral grounds. Indeed, it was claimed that slavery was a religious command, and that the slave owners owed it to God and to civilization to maintain slavery.

GEORGIA AND OTHER STATES WORKING FOR HIGHWAY AND SCHOOL BONDS.

THE Georgia Industrial Bureau, composed of many of the foremost business men of the state, stands squarely behind the proposition to issue \$75,000,000 of bonds for the building of good roads and also behind a bond issue for the building of schools. It is calculated that the 3c tax on gasoline would pay off the bond issue within thirty years.

In this movement the Industrial Bureau of Georgia has shown wise judgment and a full appreciation of what the building of roads and the broadening of Georgia's school facilities would mean for that state. It should be borne in mind that the tax on gasoline is an entirely new source of revenue which has come to the states, making feasible, without cost to the people in the form of taxation, the ability to raise funds for carrying on the building of highways.

Some Georgia counties, a good many years ago, were leading the entire South in the matter of road building. Fulton and Muscogee and some others boasted of the splendid road work they were doing, but that was when automobiles were in their infancy and when the motortruck was unknown. The coming of the automobile and motortruck in ever-increasing numbers completely changed the situation, and the building of good highways by other states left Georgia far in the rear in the matter of roads, as it has for some time been in the rear in the attention given to educational facilities and the extension of educational work. The arguments of those who have opposed taxation for highway building and school extension are no longer worthy of credence. Highway building without increased taxation has now become entirely possible through the development of the automobile industry, and the state which falls behind in educational work dooms its young people to impoverishment of mind, which leads to impoverishment in material and moral affairs.

The expenditure of money for highways and for education, broadly conceived and liberally prosecuted, using only the highest talent that can be secured both in road building and in educational work, is an investment which will yield a profit almost without limit to every state which intelligently undertakes such a campaign.

Of what avail is it that Georgia boasts of its great natural resources when it leaves untrained and undeveloped its greatest natural resource in its young people, to all of whom it should give the amplest educational opportunities?

Of what avail are the agricultural capabilities of Georgia if bottomless mud or deep sand roads destroy by excessive cost any possible profit to the farmer in hauling his produce to the market or in getting back from the town or the city where he trades, the things he must buy?

Improved highways are an absolute necessity to any community which does not intentionally seek to retrograde morally, spiritually and financially.

No man has a right to permit his family to live in a section where bad roads are like a ball and chain around the limbs

of his children, holding them back from educational and material opportunities for advancement.

No man has a right to surround his wife with the loneliness and hardships of farm life in a region where good roads do not exist or where there is not sufficient energy to build improved highways.

Georgia is a state imperial in its natural resources, with a people who are capable of the highest educational and business development, but these things are lessened in value until Georgia has touched with the magic wand of improved highways the dead and latent resources in money and natural advantages and quickened them into wealth-creating realities.

Kentucky and other Southern states are engaged in campaigns somewhat similar to that upon which Georgia is entering. Every well-wisher of his fellow-man, everyone who seeks the upbuilding of the character of the rising generation and who would see the present generation of farmers and others lifted out of the ruts of muddy roads and given the opportunity of social and educational opportunities and of economic transportation to and from the farm, should reverently pray that the people of these states may be wise enough to see the opportunity which confronts them. This is equally true as to the people of Kentucky and of every other state which is carrying on a campaign for enlarged highway building and larger educational opportunities as it is as Georgia. This campaign should not have to wait on the activity of some one organization like that of the Georgia Industrial Bureau, but should be aided by every well-wisher of his state and every well-wisher of humanity. Merchants and bankers and business men generally, farmers and all others who want to build a higher civilization and develop a greater prosperity than they have ever known should throw themselves whole-souledly into a campaign for bond issues for road building and educational work.

AN ENERGETIC ARKANSAS CHAMBER OF COMMERCE.

IN the monthly bulletin of the Chamber of Commerce of Blytheville, Ark., we find the following statement addressed to the members of that organization:

"We have just received a copy of 'The Blue Book of Southern Progress,' which is issued annually by the MANUFACTURERS RECORD of Baltimore, Md.

"The Blue Book this year is even better than it has been heretofore, and that is saying a lot for it. It is jammed full of interesting and enlightening facts and figures about our Southland and her wonderful development that will open the eyes of the most optimistic and enthusiastic exponent of the South.

"We owe to the MANUFACTURERS RECORD, for the invaluable service it is rendering to the South, a debt that we can never pay. The best way we can think of to show our appreciation for this service is for the commercial and civic organizations and large companies and corporations of the South to purchase numbers of this year's copy of the Blue Book and distribute them to friends, acquaintances and business connections in other parts of the country. By doing this we will be spreading the gospel of the South's wonderful advantages and future greatness among those who know least about it, and at the same time we will be helping the MANUFACTURERS RECORD take care of the expense of publishing this remarkable record.

"The Chamber of Commerce each year purchases a number of copies of the current Blue Book. This year we hope to be able to purchase more of them. We will be glad to get copies for any of our people who care to have them. Just call up and tell us how many you want."

How many other commercial organizations in the South are equally alert?

IMPORTANCE OF WORK TO DEVELOP THE SOUTH FROM WITHIN.

Gulf, Mobile and Northern Railroad Company.

Mobile, Ala., May 13.

Editor Manufacturers Record:

I have read with interest the letter from T. C. Hannah of Hattiesburg, Miss., and your comment thereon published in the current issue of the MANUFACTURERS RECORD.

A glance at a map of Mississippi will evidence why the Gulf, Mobile & Northern Railroad should be, and is, vitally interested in the development of that state. Of a total of less than 500 miles of railroad 419 miles are in the state of Mississippi. Our road passes through the heart of the long-leaf yellow pine district, and at one time more than 90 per cent of the tonnage which this road enjoyed was made up of forest products. The present tonnage of forest products is 62 per cent.

Since this railroad has been in operation—a period of 30 years—south Mississippi has changed from a vast wilderness of virgin long-leaf pine to equally as vast an area of stumps. Indications are that another 20 years will see all of the virgin timber gone and saw-milling operations confined to small mills cutting the regrowth.

During this period of forest devastation agricultural development has been practically at a standstill, with the result that counties in this section are now operating on taxes earned from standing timber and agricultural efforts, both of which together comprise no more than 25 per cent of the country.

Our own people will tell you on first blush that this land is worthless, yet I can carry you through this section, and scattered here and there are to be found highly developed farms earning good returns for the owners. These farms have not been located through any study of soils, but as results of land ownership after the timber has been removed, evidencing that most of this land will respond to agricultural efforts.

We are making every effort to bring in new people to purchase and develop this cut-over land, but have found it necessary to educate our own people to the opportunities about them at the same time.

The Satsuma orange industry in south Mississippi and Alabama is developing into a real commercial production on lands which can be bought at prices not exceeding \$50 an acre and where irrigation is not necessary, yet people throughout Mississippi and other Southern states have been flocking to the West and buying lands at unusually high prices, where it is necessary to irrigate for the purpose of raising citrus fruits.

I am attaching a copy of an advertisement which this road published in all of the papers in Mississippi to counter this movement and calling attention to the possibilities here at home.

Mississippi can, if Mississippi will, develop into one of the best states in the Union, along every line of agricultural endeavor.

While I do not always agree with you in positions taken, I do admire the way in which you fight for your convictions, and I want to thank you for the effort you are making for the development of the South, and to assure you that we are ready and anxious to co-operate with you in any way possible.

J. B. HAMAN,
Director of Development.

Mississippi, as stated by Mr. Haman, is indeed a state of great agricultural potentialities. It should become one of the leading agricultural regions of the entire country. It is splendidly adapted to the raising of livestock and diversified farming.

In many respects Mississippi has in times past been a leader. We believe the industrial College for Women was the first of its kind and character in the United States, showing the broad vision of the people who established it. Why Mississippi people will leave a state of such great agricultural potentialities and go out into the cold West where the biting blasts of blizzard weather make life almost unendurable we have never been able to understand, unless one reason for it is that the people of Mississippi, as well as many people

in other Southern states, have not as unceasingly as they should have done taught their young people, and the older ones for that matter, as to the opportunities in Mississippi. Moreover, Mississippi, like other Southern states, has also had a lack of industrial development in proportion to its agricultural interests, and thus has lacked a home market for the brain and the brawn of the young people.

Perhaps the state has not given to its young people the same educational advantages which could be found in some of the Western states to which so many have moved. There are few things that appeal more strongly to parents than the opportunity of giving their children educational advantages, and thousands of people—yes, hundreds of thousands of families—have moved out of the South in times past because they could find better educational facilities in other sections and a more immediate market for all of the business talents of their children.

In the small towns of the South the facilities for education and the opportunities for employment have generally been limited, and many thoughtful people have on this account gone elsewhere for the purpose of finding better employment for their children as they grow up and better opportunities for education.

The South has sometimes made a mistake in fearing to tax itself sufficiently to maintain good schools for nine months in the year, overlooking the fact that money invested in schools is an investment which returns a thousandfold profit in the education and development of the young people.

Money invested in young people is the best investment that a state or an individual can make.

Perhaps some of these facts have been overlooked in the state of Mississippi, and this may have caused a movement from the state of people who otherwise would have been glad to remain.

Moreover, in the smaller towns of the South there are often a few old-time, conservative, dominant men who largely shape the views and policies of the community in which they live. Often these men have been content with things as they were in the past and have rather frowned down any new lines of activity or new developments contrary to the things to which they were accustomed. Young men with red blood in their veins, finding themselves held down by this ultra-conservatism of a few of the older people, perhaps the bankers or some other men of outstanding importance, have broken loose and gone West to find a new environment in which the traditions or the conservatism of the past would not hold them down from making new ventures or developing to the utmost all of the energetic forces which they feel throbbing within them.

We believe that it is even more important to educate the people already in the South to a full utilization of their opportunities than it is to bring in people from outside, however important this may be. A concerted, aggressive movement to develop the inherent qualities of success in the people who have not yet made a success in agriculture or other business is one of the most vitally important things which the South can do for its own prosperity. The importance of the incoming of new people with new ideas can be stressed vigorously and to great advantage, but while doing this let everybody in the South follow the example stated in Mr. Haman's letter, in which he said that he has found it necessary to educate his own people to the opportunities about them. That is a work worthy of the energy and the thought of every man and woman who seeks to develop humanity while developing the South.

God often comes to visit us but generally we are not in.
—Abbe Roux.

MUSHY SENTIMENTALISM ON PART OF SOME MINISTERS IN BEHALF OF BOOTLEGGERS.

THE statement was recently published in some of the newspapers to the effect that ministers of the Gospel in Mississippi had in many cases appealed to Governor Whitfield of that state to pardon bootleggers. In reply to an inquiry as to the correctness of this report, Governor Whitfield writes as follows:

"In reply to your inquiry, will state that the clipping mentioned does not quote me literally in an address made before a state-wide meeting of the W. C. T. U., in which I was urging the support of public opinion in executing the prohibition laws. I stated that, while I knew the ministers were for the enforcement of the law, yet in instances where they knew the condition of the family back home, and the prisoner professed reformation, that they had been to me and urged me to pardon him. This has been true in many cases. I am sure it is because they see the need of the family, and believe in the reformation of the prisoner, and not because of any desire to aid bootleggers that they seek these pardons. Do not get the idea that our ministry is lined up with bootleggers, because this is not true."

The MANUFACTURERS RECORD has no thought that the ministers of the Gospel in Mississippi, or elsewhere, are lined up with the bootleggers, but we hold that ministers who seek the pardon of bootleggers are to the extent of their ability thus co-operating with the bootleg industry, and helping to destroy the morality of the country.

The bootlegger who enters upon his campaign seeks to violate the laws of the country, to encourage drunkenness and the breaking down of all moral restraint. He is a criminal at heart and usually goes prepared to murder anyone who may undertake to interfere with his criminal activities. The fact that the bootlegger's family may suffer because of his punishment has no bearing whatever on the subject, and the minister of the Gospel who seeks the pardon of the bootlegger would be better engaged in seeking the pardon of some vicious thief or some other criminal; for few, if any, other criminals are doing as much as the bootlegger's industry to break down law and destroy the morals of the country.

The thief who steals a man's property is not nearly so dangerous a criminal against society as is the bootlegger who seeks to destroy the body and soul of the victims who buy his whiskey, and rob their families of honor and morality and the means of support. The ministers who appeal for pardon for such men display a mushy sentimentalism akin to the weak-minded, weak-moral women who write scented notes to vile criminals and bedeck their prison cells with flowers.

A WESTERN VIEW OF ITS WORK.

SIDNEY STORY, vice-president in charge of the Export & Foreign Trade Department of the American Commerce Association, Chicago, writes:

"Your magazine is one of the best in the country, if not the best, because to read it is to not only keep posted but to keep on educating ourselves.

"You certainly have done great constructive work and are still doing it for the South, and every citizen and every class of interests throughout that wonderful region owes you a debt of gratitude, and I hope are giving you the liberal support that the great work that you have and are doing for them entitles you to."

EXPORTS OF MEATS AND FATS INCREASE.

DOMESTIC exports of meats and fats for the eleven months ending May, 1924, show large increases over those of the same period last year, says the Department of Commerce. The increase in total meats was approximately 12 per cent, while an increase in animal oils and fats amounting to 7 per cent was recorded. Shipments of pork and animal fats are very largely to the United Kingdom and Central Europe.

Average export value of meat products for the eleven months ending May, 1923, amounting to 15.73 cents per pound, declined for the period ending May, 1924, to 13.81 cents per pound. On the other hand, export value of animal oils and fats which for the ten-month period ending May, 1923, amounted to 11.88 cents per pound, increased for the period ending May, 1924, to 12.33 cents per pound.

Following the usual trend at this season of the year, May exports of both meats and fats have declined from those of April. The exports for May and for the eleven months ended May are as follows:

	Month of May		11 months ended May	
	1923	1924	1923	1924
Total meats lbs.	79,370,797	57,934,932	844,703,880	951,460,171
and meat products . . . \$	11,201,907	7,662,851	132,953,186	131,347,346
Total animal lbs.	113,525,751	85,724,082	1,129,170,597	1,207,276,405
oils and fats \$	13,614,058	9,899,592	134,182,513	148,843,071
Beef, fresh . . lbs.	388,029	173,375	3,804,394	2,693,453
\$	59,846	31,869	576,864	460,043
Beef, pickled, etc. lbs.	1,612,194	1,724,568	22,078,380	19,948,550
\$	165,100	174,887	2,096,104	1,983,886
Pork, fresh . . lbs.	2,601,173	1,522,340	40,678,346	47,856,302
\$	376,027	200,191	6,344,637	6,720,720
Wiltshire sides* . . . lbs.		1,262,344		
\$		142,771		
Cumberland sides† . . . lbs.		2,002,629		
\$		225,684		
Hams and shoulders . . . \$	30,031,731	27,379,746	288,437,579	341,123,456
Bacon lbs.	4,607,177	3,763,307	50,533,538	52,213,527
\$	34,576,766	14,939,578	379,693,172	395,066,305
Pickled Pork . . . lbs.	4,359,641	1,700,609	55,538,327	49,376,816
\$	2,442,929	1,951,927	37,956,633	35,463,488
Oleo Oil lbs.	264,776	213,063	4,615,245	4,074,623
\$	8,917,924	8,805,589	96,937,745	85,269,156
Lard lbs.	1,125,533	1,075,483	11,122,928	10,462,617
\$	93,198,992	62,647,748	888,066,468	955,423,280
Neutral lard . . . lbs.	11,279,153	7,437,567	108,778,020	122,135,063
\$	2,143,748	2,831,900	25,311,584	21,854,337
Lard com- pounds . . . lbs.	277,407	357,366	3,273,431	2,947,049
Animal fats . . \$	425,537	444,053	10,583,934	6,318,407
Margarine . . . lbs.	59,835	58,084	1,318,847	857,955
animal fats . . \$	80,940	61,548	1,927,220	1,057,405
Cottonseed oil lbs.	13,569	9,866	312,582	169,473
\$	2,612,190	2,435,298	62,596,204	38,023,401
Lard com- pounds . . . lbs.	305,710	254,218	6,276,122	3,931,336
vegetable fats \$	526,231	911,435	17,432,933	6,737,545
\$	77,521	122,436	2,141,956	952,677

*Included in "Hams and shoulders" prior to January 1, 1924.

†Included in "Bacon" prior to January 1, 1924.

COMMODORE MAURY AS THE PROJECTOR OF OUR WEATHER BUREAU.

THE CONFEDERATE VETERAN of Nashville prints a letter written by Commodore Maury which seems to indicate that he was not only "The Pathfinder of the Seas" but the projector of our Weather Bureau as it now exists. The Confederate Veteran says:

"Recently the old letter printed below was found by a prominent U. D. C. woman and sent to this Department. It is printed in 'Littell's Living Age' in September, 1855, and is headed: 'Lieutenant Maury's Observations on Land.'

"The letter suggests to farmers a plan for securing a more intimate acquaintance with the influences which surround them in the atmosphere, and says:

"'Some years ago I commenced such a system for the sea as I am now advocating—and as I now both see and feel the necessity of—for the land.' After we had been at work a little while, Congress authorized the Secretary of the Navy

to employ three small vessels of the navy to assist me in perfecting these discoveries and pushing forward investigations. Now, you would have said, what two things can be more remote than maps to show which way the winds blow and a submarine telegraph across the Atlantic? Yet it seems they are closely connected, for researches undertaken for the one are found to bear directly upon the other.

"Among the early fruits gathered by pushing our discoveries is the promise of a submarine telegraph across the Atlantic. Storms on land have a beginning and an end; that is, they commence at some place and frequently, after several days' travel, end at some other. What would it be worth to the farmer or the merchant or to anybody if he could know, with something like certainty, the kind of weather he might expect one, two, or three days ahead? I think it not at all unlikely that such, to some extent at least, would be among the first fruits of this system of observations I am proposing. I do not suppose that we should be able to telegraph in advance of every shower of rain, but without doubt the march of the rains that are general can be determined in time to give the people, in some portions of the country at least, warning of their approach. Such an office as will be required here in Washington is already here; it was established by Mr. Calhoun when he was Secretary of War. Some of the leading scientific men of Europe are ready to join us in such a plan, and I have no doubt most of the governments of the world would undertake, each for itself, and within its own territories, a corresponding series of observations so that we should then be able to study the movements of this great atmospheric machinery of our planet as a whole and not, as heretofore, in isolated, detached parts.

"M. F. MAURY, Lieutenant United States Navy."

DECLINE IN CEREAL EXPORTS.

EXPORTS of cereals from the United States for the eleven months ended May, 1924, showed a marked falling off compared with the same period of 1923, reports the Department of Commerce. This is especially true of wheat, of which 74,000,000 bushels were exported during the eleven months, against 146,000,000 in 1923; and of corn, exports of which fell from 92,000,000 bushels last year to 20,000,000 bushels this season. Exports of oats declined from 18,000,000 bushels to 1,000,000 bushels; barley, from 18,000,000 bushels to 10,000,000 bushels; rye, from 48,000,000 bushels to 14,000,000 bushels; rice, from 296,000,000 bushels to 188,000,000 bushels. Exports of flour increased from 14,000,000 barrels to 16,000,000 barrels.

The value of the exports of all these cereal products combined was \$228,000,000 this season, a decrease of \$199,000,000 from that of last year.

Detailed figures are as follows:

	Month of May		11 Months Ended May	
	1923	1924	1923	1924
Total grains and preparations of.	\$30,059,896	\$12,955,371	\$427,480,928	\$228,392,975
Barley ....bushels	364,708	447,649	17,830,992	10,695,973
\$	322,489	423,826	13,309,870	8,412,260
Corn ....bushels	5,064,125	1,710,858	92,145,989	20,309,639
\$	4,560,677	1,565,409	73,215,261	18,763,956
Oats ....bushels	508,459	14,926	18,473,395	1,090,593
\$	267,498	9,030	9,224,765	562,765
Rice .....pounds	28,522,110	4,863,694	296,051,624	188,162,279
\$	1,108,325	255,834	11,496,664	8,225,010
Rye .....bushels	4,611,459	1,923,584	47,534,107	13,996,244
\$	4,245,805	1,475,385	44,147,147	11,199,905
Wheat ....bushels	9,972,844	2,811,390	145,698,688	73,818,400
\$	12,399,478	3,092,559	180,546,437	81,933,644
Wheat flour..bbls.	983,028	978,504	14,076,382	16,079,065
\$	5,641,159	4,978,203	79,431,820	82,333,366

To Build \$1,000,000 Addition to Power Plant.¹

El Paso, Tex., June 21.—[Special.]—The El Paso Electric Railway will build an addition to its power plant at a cost of \$1,000,000, including the installation of a new turbine and other equipment. The present capacity of the plant will be doubled.

Cotton Acreage Shows Increase.

The Commercial and Financial Chronicle, in its review of the cotton acreage, says:

"There has been a substantial further increase the present season in the land devoted to cotton growing in the South and elsewhere in the United States, but the experience of the two immediate seasons is suggestive of the caution that must be exercised unless undue stress be laid upon this single element bearing upon the size of the crop. There are other factors in the problem of equal, if not greater, import. Chief among these is the meteorological conditions or state of the weather. Bad or seriously adverse weather, if prolonged, can ruin a crop no matter what the extent of the acreage, though, of course, there is considerable protection in a large acreage, extending over wide sections of country through different degrees of latitude and longitude, in which case there is assurance against complete and universal disaster to the crop, since nature's destructive influences never operate with equal severity in regions wide apart."

The following table shows the acreage planted to cotton in 1923, according to the Department of Agriculture's figures, the probable acreage for 1924—and the estimated increase or decrease, as figured by the Chronicle:

States	Acreage Planted, 1923— Dept. of Agriculture	Estimate for 1924— Increase or Decrease	Probable Acreage 1924
Virginia	74,000	Increase 8%	80,000
North Carolina	1,687,000	Increase 6%	1,788,000
South Carolina	2,005,000	Increase 4%	2,085,000
Georgia	3,844,000	Increase 5%	4,036,000
Florida	171,000	Unchanged	171,000
Alabama	3,190,000	Increase 3%	3,285,000
Mississippi	3,392,000	Unchanged	3,392,000
Louisiana	1,464,000	Increase 10%	1,610,000
Texas	14,440,000	Increase 8%	15,595,000
Arkansas	3,120,000	Unchanged	3,120,000
Tennessee	1,221,000	Decrease 5%	1,160,000
Missouri	394,000	Increase 8%	425,000
Oklahoma	3,400,000	Increase 15%	3,910,000
California	*235,000	Increase 17%	*275,000
Arizona	130,000	Increase 30%	169,000
All other	+92,000	.....	92,000
Total	38,709,000	Increase 6%	41,018,000

*This includes 150,000 acres in 1923 and 175,000 acres in 1924 for the portion of the Imperial Valley lying in Lower California (Mexico) and which we disregard in our footings. †Including New Mexico.

"It will be seen from the foregoing that for the South as a whole there is an increase of 6 per cent. There is only one state where we find ourselves justified in reporting a decrease, namely, Tennessee. This is a state of small acreage and we put the falling off at 5 per cent, which the official figures may somewhat reduce when they become available. In the case of Florida, Mississippi and Arkansas we leave the acreage the same as last year. All the other states show increases. The biggest percentage of increase in the case of any state of considerable size is that of Oklahoma, with a gain of 15 per cent. For Texas the June 1 estimate of the Texas Commissioner of Agriculture shows an addition of 10 per cent, but we make the increase only 8 per cent, to be on the safe side."

The acreage planted and the production of cotton in the United States, for a series of years, follow:

Year	Acreage Planted (Acres)	Picked (Acres)	Production Census 500-lb. bales
1910	33,418,000	32,403,000	11,608,616
1911	36,681,000	36,045,000	15,692,701
1912	34,766,000	34,283,000	13,703,421
1913	37,458,000	37,089,000	14,156,486
1914	37,406,000	36,832,000	16,134,930
1915	32,107,000	31,412,000	11,191,820
1916	36,052,000	34,985,000	11,449,930
1917	34,925,000	53,841,000	11,302,375
1918	37,207,000	36,008,000	12,040,532
1919	35,133,000	33,566,000	11,420,763
1920	37,043,000	35,878,000	13,439,603
1921	31,678,000	30,509,000	7,953,641
1922	34,016,000	33,036,000	9,762,069
1923	38,709,000	37,130,000	10,128,478
1924	41,018,000	(?)	(?)

President Sirrine Presents the Southern Exposition to the Southern Commercial Secretaries' Association.

At the Spartanburg meeting last week of the Southern Commercial Secretaries' Association, President W. G. Sirrine of the Southern Exposition spoke in part as follows:

"I am here today to speak to a body of men who represent the industrial, the agricultural and horticultural advancement of the South during the past twenty or thirty years. I want to thank you for this opportunity to talk to you for a few minutes about the Southern Exposition.

"When the idea was first advanced in New York that such an Exposition was the proper thing, I declared it could only be accomplished by the Southern commercial secretaries. You have done things that read like a story-book. You have brought the South to the forefront, you have advertised its agricultural, horticultural and natural resources, the things that it has done and the things that it is doing in such a no uncertain way that the eyes of the whole country are turned on you.

"We have in this broad land of ours, stretching from the Mason and Dixon line southward and eastward of the Ohio River, the Land of Opportunity. As some one said to me, 'It is the new West.' He said 'Don't use that expression, but that is what we are looking to. This is where the Northern and Western people expect to develop their great fields of future activity and profit.' By the same token, as commerce is a two-sided affair, it means that in the end we are going to get the results.

"We have represented here in this section a multitude of interests. To count them over, to recite them, would be to tire you. Nobody knows them better than you do. The question is how to market those things we have to sell.

"Expositions are a very good medium of advertising. The British Empire Exposition is now being held in England. All of the things that vast country has to offer to the markets of the world are being looked over by the buyers of the world. F. W. Payne, of the Grand Central Palace, who is to stage our Exposition for us, is spending a month there trying to get some new ideas, so that the Southern Exposition will be, in his language, 'the greatest undertaking that the Grand Central Palace and its allied companies have ever staged.' In the Dominion of Canada they are having in Montreal the All-Canada Exposition, which runs through the entire summer, and they are advertising for people to come from all over the American continent to see what Canada has to offer. So it seems to me that it is timely that the South should for two weeks in January, next year, bring into that great building which was erected for such purposes a condensed, a miniature picture of what we have done, what we are doing and what we propose to do.

"The state of South Carolina, which is your host today in a way, through this very hospitable city of Spartanburg, has seen fit to make an appropriation of \$10,000 to make an agricultural and horticultural exhibit. That bill has been passed and signed by the Governor. A committee will shortly be appointed to act in co-operation with our State Committee. Eleven states, including South Carolina, have indorsed this Exposition. They have not tied themselves up in a way to embarrass them, but their committees are at work arranging suitable exhibits to demonstrate to the people of the middle West and of New England and of the North what they have to offer. The exhibits will include

all sorts of things. The variety, as I said a moment ago, is too great to attempt to enumerate. In the state of Virginia, for instance, they have met with such a warm response, due to the efforts of their very capable committee, that they telegraphed us the other day, 'Space allotted entirely inadequate. Want fifteen thousand square feet.'

"Several of the states have as yet not been heard from, and, of course, in the event that these states do not within the next few weeks complete their organizations and take their allotments, we will take this space and allot it proportionately among the states which desire representation. Personally, I have no doubt that we will have at least twelve states. I am happy to state that the time of probation has passed, thanks to the co-operation that I have received in every state visited, thanks to the chambers of commerce that have called conferences, and to the efficient managers and secretaries who have brought their business men and their bankers, their agriculturists and their fruit growers to hear this proposition. It is no longer a matter of doubt. The Southern Exposition is a success already. That is due not to our immediate organization, but to the members of this association who are doing so much for the section in which we live and of which we are so proud.

"This is the first opportunity, Mr. Chairman and gentlemen, I have had to thank you collectively. I have had so many calls upon my time that oftentimes I was like the man in the story just told by Mr. Brown. I was coughing and very weak, but if any state doesn't participate in this Exposition I can say, as did the man in the story, 'There is some of them as wishes they could cough.'

"In fact, I think any state that doesn't go into the Exposition will find that it has neglected a very valuable advertising opportunity. I am aware that the man who promises a rain of golden shekels, who promises a 100 per cent result from any proposition, is usually out on a limb. It is not a fair thing to expect people to take on a new idea that has never been tried out without some caution. I expected conservatism in your organization because I know it is composed of conservative men. In fact, a man cannot be a successful organizer or a successful executive unless he is conservative. The fact that he is capable of managing a chamber of commerce in an industrial community calls for caution. I expected it, and no one who hears me today need feel that we felt any impatience during the past eight months when we were trying to advertise this idea if one wanted to wait a while and see whether it would go.

"Fortunately, all doubt now is passed. The Southern Exposition has been espoused by so many of the trade magazines, the business and newspapers of the country that it can't fail. The MANUFACTURERS RECORD, as you know, is the leader, entirely unsolicited by us. I never met Mr. Edmonds, the editor of that paper, until long after he got in behind us. His aid has been invaluable. Without it we could hardly have started to move. We appreciate it beyond words. Some of the other magazine editors we had never met, but now wherever I go they are giving us the warm hand of fellowship, they are saying, 'Give us your copy; we will give you publicity free. It is a big enterprise, we are interested in the South, and we know you are going to succeed.'

"In one respect I feel that the task ahead of us is a little bit burdensome in this: Since I have asked your support and have traveled over the South from Texas to Virginia

I have promised much. I promise again today that this Exposition will reflect credit upon you who have made it possible. I haven't done that without due regard for that promise. We have not attempted and will not attempt to stage an exposition without the proper aid. We will not attempt it without the proper thought and the proper study.

"We have a very strong body of men to guide us, and that is our executive committee. I don't think it is very fully understood that the executive committee is composed of the chairmen of the various state committees, that they will be the autocrats of this exposition. To them will be submitted the details of the plans within a few months, possibly a few weeks, just as soon as the states can complete their organizations. They will be called together, all the details will be laid before them as to just how we propose to divide the space, how we propose to decorate the buildings, how we propose to subdivide the exhibitors into respective states and the picture that we want to have in the main part of the building as you walk up the stairs. This spot is immediately overlooked by the balcony of the mezzanine floor. The picture that we are trying to get there will simply impress the beholder with the progress and the patriotism of the South.

"Many things have been suggested. You can see that we have rich materials to draw upon, a little of the romantic, a little of the chivalrous, a good deal possibly of the historical, but never for one minute forgetting that this Exposition is a business affair, that it is proposed to show horticulture and agriculture and mining and timber and everything that is made in the factory and everything that is made in the workshop. I say, gentlemen, that we are going to submit all of those ideas to that executive committee, and when you look over the list and see the names of the men who have agreed to head these committees I think you will agree that we certainly will have wise counsel.

"Now, just another word. The latest prospectus, which was off the press yesterday, contains the name of Governor E. Lee Trinkle of Virginia as honorary president, and the names of ten governors of Southern states who have written or telegraphed in to say that the Southern Exposition has their best wishes and that they take pleasure in serving as honorary officers. With the aid of these gentlemen we propose to have some social features in New York which we think would do much to insure a crowded auditorium every day of the two weeks that it continues. The idea is to have probably a day for each state. Each state, as you know, in New York has a society. It may be that we will ask each one to have a simple luncheon such as we have had today, with perhaps one or two speeches by the Governor of that state or some other, something that wouldn't require the visitor in New York to carry his dress clothes, something that wouldn't tire him out with a long evening of speeches or eating, nor that would prevent him from going to the theater or the Exposition or wherever he wants to go. Some large hotel could be selected where the people of that state will meet, where all the New Yorkers who are interested in the people back home will do all they can to advertise the occasion—all they can to make their day a banner day at the Exposition.

"In conclusion, I want to assure you again of my great appreciation of your support, of the teamwork that has made this project a success. It is not completed, but we are over the top. The easiest part is to come now. We will never forget that the Southern Commercial Secretaries made it possible. No other organization south of the Mason and Dixon line has shown more progress, no other organization has drawn within its circle men of more talent, men of more patriotism, or men who do more to develop their own communities."

President L. W. Baldwin of the Missouri Pacific Railroad Company Will Co-operate.

St. Louis, Mo., June 11.

Editor Manufacturers Record:

I feel that your generosity in offering a prize to the state making the best display at the proposed Exposition of resources of the South should be very highly commended. I will be very glad to do whatever I can personally to assist you in developing this proposed plan for the Exposition.

L. W. BALDWIN.

South Carolina Wants the \$5000 Prize.

Greenville, S. C., June 18.

Editor Manufacturers Record:

Please be informed that South Carolina desires to enter into the competition for the \$5000 worth of advertising in connection with the Southern Exposition.

I presume that you will, of course, base this competition in proportion to the size and wealth of the various states, as naturally South Carolina could not compete with other states of two or three times the area on the same basis. At your convenience please announce something in regard to the basis on which the prize will be awarded in order that we may work together and win the prize.

Permit me, as the secretary of the South Carolina committee, to express appreciation to you for this splendid offer and to assure you that, in our opinion, if the states of the South show as much interest in their Exposition as the MANUFACTURERS RECORD does in boosting it, it will be the most wonderful exhibition of sectional progress that has ever taken place in the United States.

WM. R. TIMMONS, Executive Secretary.

[The offer is open to all Southern states that exhibit. The details will be left entirely in the hands of a committee to be named by Dr. Charles H. Herty, who will be chairman. We do not think, however, that the size of the states need be taken into account, for each state is to be allotted the same amount of space.—Editor MANUFACTURERS RECORD.]

Exposition Offers Real Opportunity for Alabama.

[Age Herald, Birmingham, Ala.]

It would be a source of pride and gratification for the prize of \$5000 which has been offered by the MANUFACTURERS RECORD for the best exhibit made by a Southern state at the Southern Exposition, held at New York next winter, to come to Alabama. But the biggest practical benefit from such an exhibit as will compare that prize lies in the information the exhibit would offer the thousands of people from many parts of the country who attend the exposition. Efforts are being made by industrial and commercial interests in this state to see that Alabama is creditably represented. No Southern state possesses larger and more varied resources than Alabama. The people of the country, however, generally know comparatively little of what has been done and what can be done in Alabama industrially and agriculturally. Unfortunately, even the majority of the people of Alabama are not informed of the achievements, opportunities and possibilities of their own state.

Alabama needs the investment of outside as well as home capital, and many industrious workers to help in the state's development. There is no more effective way of attracting both than for the resources to be properly set forth where all the people can see and learn. Thus, this Southern Exposition, with its facilities for spreading this information widely, offers a promising opportunity to advertise Alabama. To impress outsiders who have capital, intelligence and industry with the opportunities in this state it is necessary that its people demonstrate their own confidence in it. One very effective way to do this is offered by this exposition. It is a real opportunity for Alabama.

All Texas Should Be Represented at New York Southern Exposition.

Chamber of Commerce.

Lufkin, Tex., June 13.

Editor Manufacturers Record:

We are quite interested in your proposition offering a prize of \$5000 in advertising to the state that makes the best showing at the great New York Exposition next winter.

We think a good way to start would be to divide the state of Texas into sections and interest the various chambers of commerce throughout each section in promoting some scheme for preparing exhibits and placing them in the Exposition as displays from the various parts of the state. East Texas, for instance, could prepare exhibits in many industrial lines, commercial, agricultural and mineral exhibits, and prepared products in the way of fruits and vegetables, that would be a surprise to thousands of Eastern people.

East Texas, with its great lumber mills and woodworking plants of many kinds, with its iron works, cotton mills and other lines, could furnish a very extensive industrial exhibit, while in this same territory almost every variety of fruits and vegetables can be produced, and all the farm products grown successfully.

We will send you a list of the chamber of commerce secretaries covering a group of this East Texas territory that we think would be interested in this proposition. If you will address them a letter similar to the one you sent the Lufkin Chamber of Commerce we believe quite a number will be interested in promoting an extensive advertising proposition such as you propose. We will hope to have the railroads co-operate with us in carrying out this plan.

WM. C. HALL, Secretary.

Arkansas Should Have Creditable Showing.

Hot Springs Chamber of Commerce.

Hot Springs National Park, Ark., June 20.

Editor Manufacturers Record:

I want to compliment the interest your magazine has taken in exploiting the resources of the South by offering \$5000 worth of advertising to the state which has the most comprehensive and attractive display at the Southern Exposition. I believe you are conservative in your estimate when you state that this \$5000 worth of advertising will be worth five million dollars' worth of publicity, as I believe the ultimate benefits to be derived by the state capturing your liberal prize can not be estimated in dollars and cents.

I sincerely trust Arkansas will have a creditable showing, as this state is indeed "The Wonder State" of the union, and its resources are not yet fully discovered, to say nothing of being developed. Very few states in the Union can claim a product for every letter in the alphabet, but such is so for Arkansas.

F. LESLIE BODY, Manager.

A Generous Offer.

[The Herald, Miami, Fla.]

The MANUFACTURERS RECORD, one of the greatest of Southern publications, is offering to that state of the South that will make the most comprehensive exhibit of its own products and manufactures at the Southern Exposition in New York city next January \$5000 worth of state advertising in that publication.

This is a prize worth while, especially as the prize winner will receive other untold advantages by making such an exhibit. The advertising alone, to the successful state, will be worth millions of dollars, as the MANUFACTURERS RECORD

is one of the most widely read journals of its class in the country.

This generous offer ought to be accepted and Florida should be one of the contestants. Some of the counties of the state were represented last year in the Exposition, but not all of them. Unfortunately, Dade county was noticeable by its absence, of which absence much comment has been heard not particularly flattering to our local pride.

Now is the time to begin an agitation for state representation at next winter's Southern Exposition, and now is the time to urge that Dade county begin work for a high position in the state exhibit.

If by good fortune Florida should win the prize offered, the resulting advertising would bring thousands of people to the state, to say nothing of the added publicity that would be given the state by the fact that it had won the first place among all the Southern states.

PRODUCTION OF ELECTRICITY IN 1919 AND OTHER YEARS INCLUDING 1923.

Electric Public-Utility Power Plants Increase Efficiency 33 Per Cent in 4 Years.

The Interior Department, through the Geological Survey, has just published a summary of the annual production of electricity and the consumption of fuel by electric public-utility power plants for the years 1919 to 1923, inclusive. This report comprises 16 tables, which show for each state the trend during the last four years in the production of electricity by the use of water power and by the use of fuels and the trend in the consumption of coal, oil and gas in producing electricity.

The information in the tables is based on reports showing the monthly production at about 4000 public-utility power plants engaged in producing electricity for public use. The capacity of the generators of these plants at present is nearly 18,000,000 kilowatts, or about 24,000,000 horsepower.

In 1919 the electricity generated for public use amounted to about 39 billion kilowatt-hours. In 1923 it amounted to 55.7 billion kilowatt-hours—an increase of over 43 per cent in four years.

The increase in efficiency in the use of fuel at public-utility power plants during these four years has been remarkable. In 1919 a ton of coal produced 625 kilowatt-hours of electricity; in 1923 a ton of coal produced 835 kilowatt-hours, an increase in efficiency in the utilization of fuel of 33½ per cent. This gain in efficiency has made our electricity cost us no more now than before the war.

In 1919 the electricity produced by the use of water power for public-utility power plants in the United States was 37.5 per cent of the total. This percentage gradually decreased to 34.8 per cent in 1923, so that water-power development is apparently not holding its own with steam-power development. The quantity of power produced at water-power plants depends directly on the quantity of water available, and a year of more than normal water supply throughout the United States would undoubtedly increase considerably the production of electricity at water-power plants and thereby increase the ratio.

In 1923 about 19½ billion kilowatt-hours of electricity was produced by the use of water power. To have produced this quantity of power by the use of fuel would have required 23,250,000 tons of coal, which would have cost considerably more than \$100,000,000.

The relative standing of the seven states that lead in production of electricity has remained the same for the last

four years. New York is first, with nearly 16 per cent of the total for the United States; Pennsylvania is second, with nearly 10 per cent; and California is third, with a little more than 9 per cent.

In the production of electricity by the use of water power California ranked first from 1921 to 1923, with 21 to 22 per cent of the total for the United States. New York, which ranked first in 1920, is now second, with about 18 per cent of the total for the United States.

In the production of electricity by the use of fuel the first

three States in 1920 were New York, Pennsylvania and Ohio, ranking in the order named. In 1923 Ohio's place was taken by Illinois.

In the consumption of oil for production of electricity California ranked first in 1920, with 43 per cent of the total for the United States, while Texas was second, with about 22 per cent. In 1923 California was first, with a little over 22 per cent, and Texas was second, with about 21 per cent. Rhode Island, which ranked eighth in 1920, advanced to third place in 1923.

TOTAL ANNUAL PRODUCTION OF ELECTRICITY BY PUBLIC-UTILITY POWER PLANTS IN UNITED STATES, 1920, 1921, 1922, 1923

	1920		1921		1922		1923	
Division and state	Thous. of kilowatt-hours	% of U. S. total	Thous. of kilowatt-hours	% of U. S. total	Thous. of kilowatt-hours	% of U. S. total	Thous. of kilowatt-hours	% of U. S. total
United States	43,554,880	100.00	40,975,617	100.00	47,659,004	100.00	55,674,435	100.00
New England	3,406,712	7.81	3,214,189	7.85	3,729,873	7.82	4,275,836	7.68
Middle Atlantic	12,348,510	28.35	11,172,532	27.26	13,061,880	27.40	15,413,092	27.68
East North Central	9,958,373	22.86	9,228,704	22.52	10,876,270	22.81	12,768,916	22.94
West North Central	3,179,426	7.30	3,207,380	7.83	3,568,462	7.50	3,975,852	7.14
South Atlantic	3,979,706	9.13	4,032,499	9.84	4,839,688	10.16	5,708,223	10.25
East South Central	1,463,657	3.36	1,311,328	3.21	1,551,732	3.26	1,890,000	3.40
West South Central	1,229,604	2.82	1,329,321	3.23	1,463,026	3.06	1,693,367	3.04
Mountain	2,580,979	5.95	1,851,550	4.53	2,389,941	5.02	2,838,915	5.10
Pacific	5,407,913	12.42	5,628,134	13.73	6,178,132	12.97	7,110,234	12.77
New England								
Maine	352,426	.81	351,054	.86	405,002	.85	452,892	.81
New Hampshire	96,602	.22	171,811	.42	195,571	.41	195,705	.35
Vermont	199,608	.46	112,452	.28	137,292	.29	155,344	.28
Massachusetts	1,739,946	3.99	1,603,959	3.91	1,849,911	3.88	2,093,161	3.76
Rhode Island	333,698	.76	344,863	.84	411,437	.86	517,230	.93
Connecticut	684,432	1.57	630,050	1.54	730,660	1.53	861,504	1.55
Middle Atlantic								
New York	6,939,042	15.93	6,170,706	15.06	7,420,778	15.57	8,722,289	15.67
New Jersey	1,095,927	2.52	960,225	2.34	1,112,438	2.33	1,250,606	2.24
Pennsylvania	4,313,541	9.90	4,041,601	9.86	4,528,664	9.50	5,440,197	9.77
East North Central								
Ohio	2,929,788	6.72	2,520,382	6.15	3,042,888	6.38	3,587,841	6.44
Indiana	932,727	2.14	905,617	2.21	1,076,944	2.26	1,261,097	2.27
Illinois	3,042,691	6.98	2,984,134	7.28	3,482,932	7.31	4,070,967	7.31
Michigan	2,092,864	4.81	1,901,752	4.64	2,179,944	4.57	2,580,399	4.64
Wisconsin	960,303	2.21	916,819	2.24	1,093,562	2.29	1,268,612	2.28
West North Central								
Minnesota	703,315	1.62	733,124	1.79	787,589	1.65	857,931	1.54
Iowa	1,016,766	2.33	989,209	2.41	1,041,953	2.19	1,109,719	1.99
Missouri	698,225	1.60	722,320	1.76	871,026	1.83	1,060,976	1.91
North Dakota	28,259	.07	31,484	.08	32,314	.07	36,116	.06
South Dakota	48,014	.11	51,264	.13	56,084	.12	62,053	.11
Nebraska	247,195	.57	264,729	.65	283,575	.60	316,684	.57
Kansas	437,652	1.00	415,230	1.01	495,921	1.04	532,373	.96
South Atlantic								
Delaware	75,575	.17	71,121	.17	84,599	.18	90,267	.16
Maryland	282,724	.65	237,249	.58	394,133	.83	510,553	.92
District of Columbia	254,949	.58	265,417	.65	282,366	.59	301,298	.54
Virginia	520,854	1.20	542,606	1.33	643,943	1.35	729,641	1.31
West Virginia	1,128,381	2.59	1,102,183	2.69	1,351,438	2.84	1,710,883	3.07
North Carolina	259,708	.59	348,569	.85	442,717	.93	632,317	1.13
South Carolina	729,998	1.68	769,699	1.88	868,768	1.82	894,893	1.61
Georgia	594,886	1.36	550,964	1.34	611,314	1.28	656,046	1.18
Florida	132,631	.31	144,691	.35	160,410	.34	182,325	.33
East South Central								
Kentucky	275,760	.63	285,163	.70	314,675	.66	352,274	.63
Tennessee	572,615	1.32	489,969	1.20	512,494	1.08	649,484	1.17
Alabama	549,668	1.26	474,390	1.16	664,404	1.39	823,216	1.48
Mississippi	65,614	.15	61,806	.15	60,159	.13	65,026	.12
West South Central								
Arkansas	118,710	.27	124,452	.30	130,564	.27	147,675	.26
Louisiana	218,529	.50	235,091	.57	249,829	.52	282,580	.51
Oklahoma	213,828	.49	214,618	.52	265,841	.56	290,495	.52
Texas	678,537	1.56	755,160	1.84	816,792	1.71	972,617	1.75
Mountain								
Montana	1,126,016	2.59	596,610	1.46	984,972	2.07	1,138,545	2.04
Idaho	590,864	1.37	550,149	1.34	615,783	.29	694,871	1.25
Wyoming	46,754	.11	37,855	.10	38,985	.08	48,853	.09
Colorado	397,286	.91	362,651	.89	403,475	.85	461,570	.83
New Mexico	14,961	.03	15,768	.04	17,140	.04	18,268	.03
Arizona	159,228	.37	132,434	.32	144,615	.30	157,183	.28
Utah	212,321	.49	119,551	.29	145,689	.31	272,577	.49
Nevada	33,549	.08	36,532	.09	39,282	.08	47,048	.09
Pacific								
Washington	1,196,725	2.75	1,176,662	2.87	1,285,625	2.70	1,446,486	2.60
Oregon	475,543	1.09	468,534	1.14	512,804	1.08	594,434	1.07
California	3,735,645	8.58	3,982,938	9.72	4,379,703	9.19	5,069,314	9.10

Five College Buildings to Cost \$1,500,000.

St. Louis, Mo.—St. Josephs Academy, conducted by the Sisters of St. Joseph of Carondelet, has secured a tract of fifteen acres at Pennsylvania avenue and Wydown boulevard, on which it will establish Fontbonne College, expending \$1,500,000 for the erection of a group of five buildings. These structures will include administration, science, music and art, gymnasium and power house, the first three buildings to be 200 by 60 feet, each. The administration building is to be four stories, while the science hall and music and art building will be three stories each.

The gymnasium will be 100 by 77 feet, one story, to contain a gymnasium 60 by 42 feet, and a swimming pool, 60 by 32

feet. The power house will contain a laundry and living quarters for help. All structures will be fireproof, of reinforced concrete and steel, with granite-faced masonry walls. Albert B. Groves is the architect, and the Humes & Deal Co. general contractor, both of St. Louis. Construction will be under the supervision of Rev. P. M. Bradley of the Church of the Blessed Sacrament.

The Water Commissioners of Natchez, Miss., have engaged Henry A. Mentz, consulting engineer, Magnolia, Miss., to proceed with plans and specifications for a 500,000-gallon elevated water storage, duplicate main arteries to distributing system and for improving pumping plant.

Little Rock Built on Solid Business Foundation.

INDIAN VILLAGE AND FRENCH TRADING POST NOW A PROSPEROUS AMERICAN CITY OF MANY FACTORIES, BEAUTIFUL HOMES, AND SPLENDID SCHOOLS.

By WARREN KING, Assistant Manager, Little Rock Board of Commerce.

Combining agreeably the brisk progressiveness of the West with a great deal of the manner and atmosphere of the South and a certain conservatism which is distinctly an Eastern heritage, Little Rock, "The City of Roses," the metropolis and capital of Arkansas, is well worth a personal, first-hand acquaintance.

Beautifully situated and unusually favored by nature, located on the Arkansas River within fifteen miles of the exact geographical center of the state and at the point where the eastern foothills of the Ozark Mountains sink into the broad, level alluvial plains which form the great agricultural empire of eastern Arkansas, Little Rock has from the earliest days attracted energetic men of vision. The result has been a skillful development of the city's advantages and opportunities, giving it a basis of solid, consistent business which accelerates its rate of growth each year.

The Duc d'Orleans, regent for the infant King of France, Louis XV, desirous of exploring and colonizing the vast province of Louisiana, in 1722 commissioned Bernard de la Harpe to explore the Arkansas River (named from the "great village" of the Indians "called Arkansen" by Jacques Harquette and Louis Joliet in 1673) and to "establish a permanent post at the Arkansas." After visiting Arkansas Post, near the mouth of the Arkansas River, founded by Henri de Tonti in 1686, and making it a permanent French trading-post, de la Harpe explored some hundreds of miles farther up the Arkansas, eventually coming to a point of paleozoic sandstone and crumpled shale some ten feet high, jutting into the stream from the south shore, the first rock seen in the upstream journey from New Orleans. This the French voyageurs called "Petite Roche," in contrast to "Grande Roche," or "Roche de France," a sheer 300-foot rock cliff which rises from the north shore of the broad river two miles farther upstream.

A village, inhabited by Quapaw Indians, stood on the well-

drained terraced plain that borders the south shore near the "little rock," and here the Indian trails that traversed the fertile wilderness centered. De la Harpe established a rendezvous and trading-post whose name in later years was Anglicized to "Little Rock," and this favored point has re-



THE CITY HALL.

mained until now the center of government, finance, commerce and industry for Arkansas.

Although it has this rather picturesque history running back for two centuries, the Little Rock of today is distinctly modern. The early village, built almost entirely of wood, has disappeared and a clean, well-planned, well-paved and progressive city of 112,000 people spreads without congestion over an area of twenty square miles. There is no "old town"



STATE CAPITOL—BUILT OF NATIVE MARBLE AND SANDSTONE.



MORRIS HALL OF LITTLE ROCK COLLEGE.

here, no "French quarter," as in the older Mississippi River towns. The present population is almost wholly composed of the descendants of English, Irish, Scotch and German pioneers, with about 15 per cent of American negroes. Only the names of the hills and streams—Fourche, Bayou Meto, Maumelle, Petit Jean—remind one of the early French occupancy.

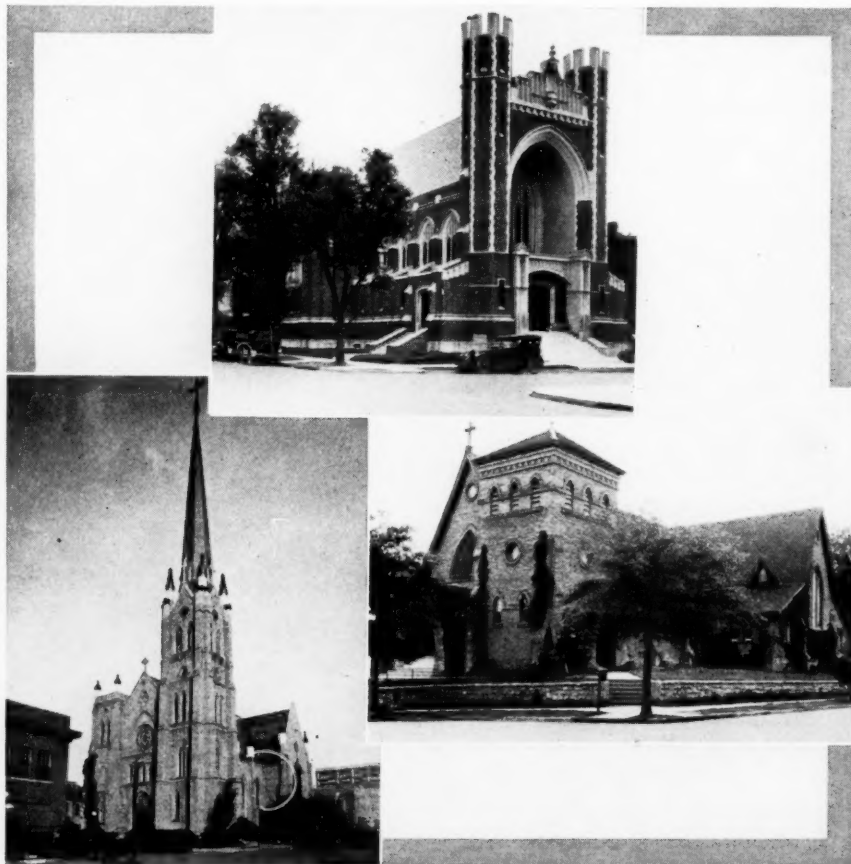
Primarily a trading-center, through which pass most of the financial and commercial transactions between Arkansas and the outside world, Little Rock is also important industrially, with more than two hundred factories, employing 12,000 workmen who earn a gross annual payroll of \$20,000,000, and producing a gross annual value in locally manufactured products estimated at \$125,000,000. Exclusive of the great terminal railroad shops of the Missouri Pacific and Rock Island systems, the largest local industry is the manufacture of cottonseed products; there are six mills, shipping 4,000,000 gallons of oil a season, by-products totaling 2500 cars of meal and 600 cars of hulls. Other leading industries include the manufacture of corn-meal and mixed feeds; hardwood and yellow pine products, lumber and stock; fertilizers, mattresses, candies, iron and sheet

metal products, brick and tile, furniture, work clothing, tents and awnings, ice cream and butter.

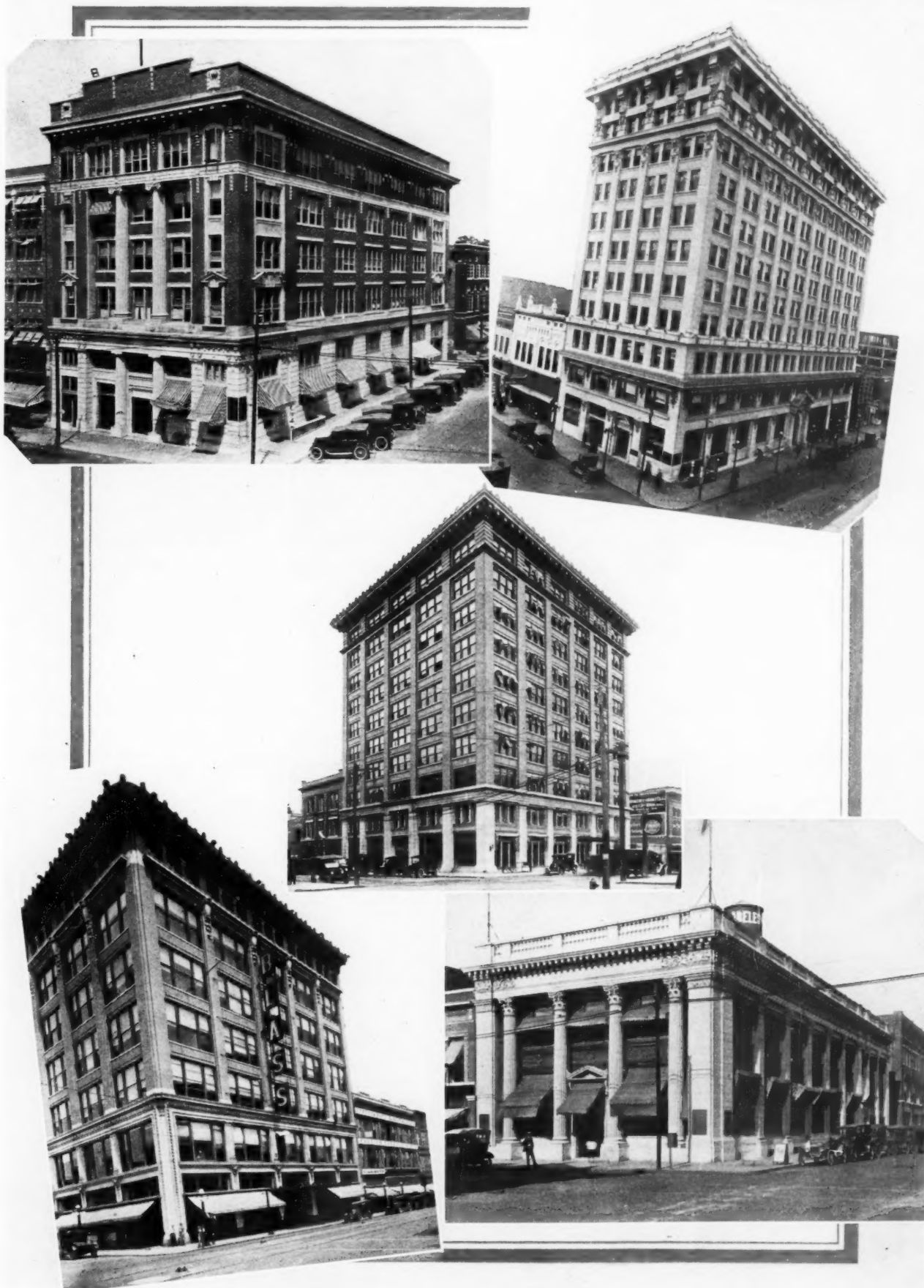
Successors to the old Indian trails which centered at Petite Roche, to the "bateaux" and canoes of the early traders, to the proud steamboats which arrived weekly from New Orleans and to the long trains of yoked oxen on the old "military roads," Little Rock today has excellent railroad connections, facilities and service and freight rates which are conducive to industrial development. There are eight distinct rights-of-way leading into the city, with connections to every point of the compass. Four of these routes are part of the Missouri

Pacific system, three are part of the Rock Island system; for both these systems, Little Rock is a division terminal and the site of general repair and rebuilding shops. The St. Louis Southwestern "Cotton Belt" system has a branch line into the city from its trunk line between St. Louis and Texas. In the year ending November 1, 1923, total carload traffic for Little Rock was 94,965 cars of merchandise, of which 52,770 were inbound and 42,195 were outbound. This was an increase of 10,854 carloads over the previous year.

The industrial belt encircles the main portion of



THREE OF LITTLE ROCK'S ATTRACTIVE CHURCHES.



TYPICAL OF THE FINER BANK, OFFICE AND STORE BUILDINGS OF LITTLE ROCK.

the city, following the main lines of the Missouri Pacific and Rock Island railways and being heaviest on the level grounds adjacent to the Arkansas river on both the north and south shores and just east of the city. According to the latest survey, Little Rock has a total of 125 miles of yard and industrial tracks in the city and suburbs; in the past five years

or "plants" whose success is dependent upon the market for a limited line of merchandise.

Definitely committed to the American "open shop" policy of free labor as the birthright of man, Little Rock is free from strikes, class hatred and labor troubles. Skilled labor is 85 per cent white and only 5 per cent of this skilled white



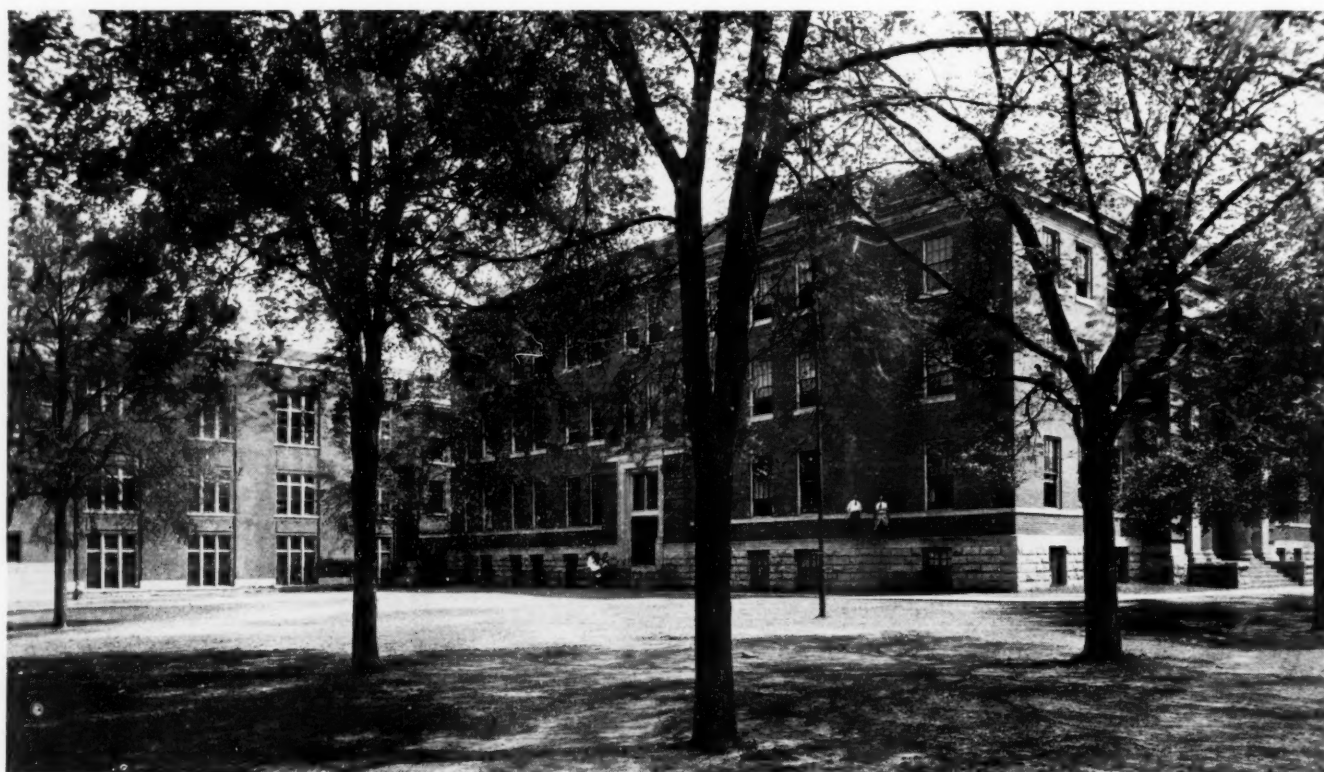
NAVY MEMORIAL BRIDGE CROSSING ARKANSAS RIVER AT MAIN STREET.

the railroads have spent over \$2,000,000 in improving these facilities, which are now adequate to all needs.

Fortunately for the city, an abundance of natural gas and electric power at industrial rates has practically eliminated the smoke nuisance. So marked is the contrast of the clear atmosphere and the physical cleanliness of Little Rock with the smoke and grime of coal-burning cities that visitors from the North and East find it difficult to believe that Little Rock has a well-developed industrial life. Another point of strength in the industrial situation is the fact that the city houses hundreds of small factories, manufacturing greatly varied products, instead of depending upon a few great mills

labor is foreign born. At least half the state of Arkansas, which has a population of 2,000,000, is peopled by white "hill-farmers" of rugged pioneer strain, accustomed to hard labor. These mountaineers form a great reservoir of high-class labor, capable of being trained to any required degree of skill and productive of efficient foremen, superintendents and executives. Loyalty and independence, native characteristics of this Scotch-Irish pioneer stock, tend to oppose the radical intrigues of foreign agitators and trade-union tyrannies. The Arkansas hill-farmer is the same in race and character as the mountaineer of North Carolina, Kentucky and Tennessee.

Raw materials immediately available to Little Rock include



LITTLE ROCK SENIOR HIGH SCHOOL.



THE MAGNIFICENT ALBERT PIKE SCOTTISH RITE MEMORIAL TEMPLE.

cotton, cottonseed products, yellow pine, white oak, hickory, gum and other hardwoods, brick, bond and pottery clays, kaolin, tripoli, bauxite, coal, manganese, lignite, zinc, marble, granite, shale and sandstone. Apples, peaches and strawberries are produced in large commercial quantities nearby in the state.

Little Rock is a great trading center. More than 150 wholesale merchandise houses are located here, serving the retail merchants of Arkansas, Oklahoma, Louisiana and Texas. Five hundred traveling salesmen call Little Rock

stocks, mail-order departments, convenient railroad service, good automobile roads and pleasant accommodations and amusements for visitors to the city. There are approximate-



A RELIC OF THE OLD SOUTH.

The historic mansion of Gen. Albert Pike, soldier, statesman and poet, known as the father of Scottish Rite Masonry in Arkansas.

"home." Practically every article of trade handled by Southern retailers can be secured in Little Rock in job lots. Ample freight and express service, with package freight-car service to almost every town in the state, from Little Rock, is an aid to the jobber and to his customer. Gross annual wholesale business for the city will total \$100,000,000.

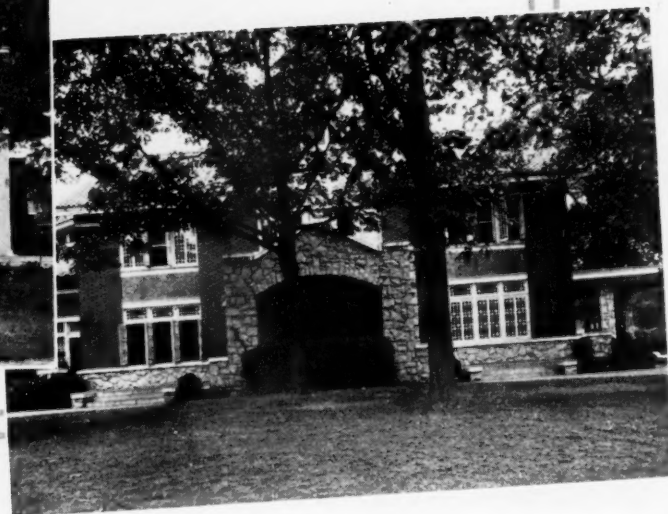
In the retail field Little Rock succeeds in holding practically 100 per cent of the local buying power and has developed a wide out-of-town clientele, drawn by large, up-to-date



A VERY EXCEPTIONAL FIRE DEPARTMENT BUILDING.

ly 400 grocers and butchers, 75 drug stores, 20 restaurants, 20 clothiers, 12 shoe stores, 10 jewelers, nine hardware stores and 7 great department stores in the city's retail ranks. Gross annual retail sales will total \$125,000,000.

Economically, Little Rock is conservative. The city has been built up on a basis of sound, consistent business, with a quiet, steady, accelerating increase, due to the agricultural and industrial development of Arkansas, free from the spectacular flights and the inevitable heart-breaking slumps of the "boom" town. There has been no frenzied gambling on the future. This assured faith in the great annual crops of a fertile state as a sound basis for a legitimate profit in trade has bred a conservatism in investment and speculation. Little Rock is like the steady-going young business man who



A GROUP OF BEAUTIFUL RESIDENCES.



NORTH LITTLE ROCK HIGH SCHOOL.

has fallen heir to a safe, assured business alert and progressive, but content to carry on along established lines to a serene, healthy profit, rather than to risk all in untried, glittering promotion schemes.

The twelve banks in Little Rock and its industrial sister city, North Little Rock, had total assets of over \$52,000,000 on January 1, 1924; aggregate deposits as of this date were over \$41,000,000. Total bank clearings in the city for 1923 were \$605,007,351.41, this being an increase of \$105,298,538.53 (about 20 per cent) over the volume of business done by Little Rock banks in 1922. This increase is credited to the growth of the city as a business and financial center and to the large amount of public and private building construction



PULASKI HEIGHTS JUNIOR HIGH SCHOOL.

twenty-acre park at the western end of Capitol avenue, constructed of native marble and sandstone and ten years in the building, conceded to be one of the most beautiful of modern buildings; the splendid Albert Pike Memorial Temple of the Ancient and Accepted Scottish Rite of Free Masonry, covering 45,000 square feet of ground and presenting a beautiful 300-foot facade, with nineteen 40-foot stone columns, one of the most complete and beautiful Masonic temples in the world, and the courthouses of Pulaski county, built of native stone, covering the block between Markham and Second streets on Spring.

Five great bridges over the Arkansas River, two for vehicles and pedestrians and three for railways, connect



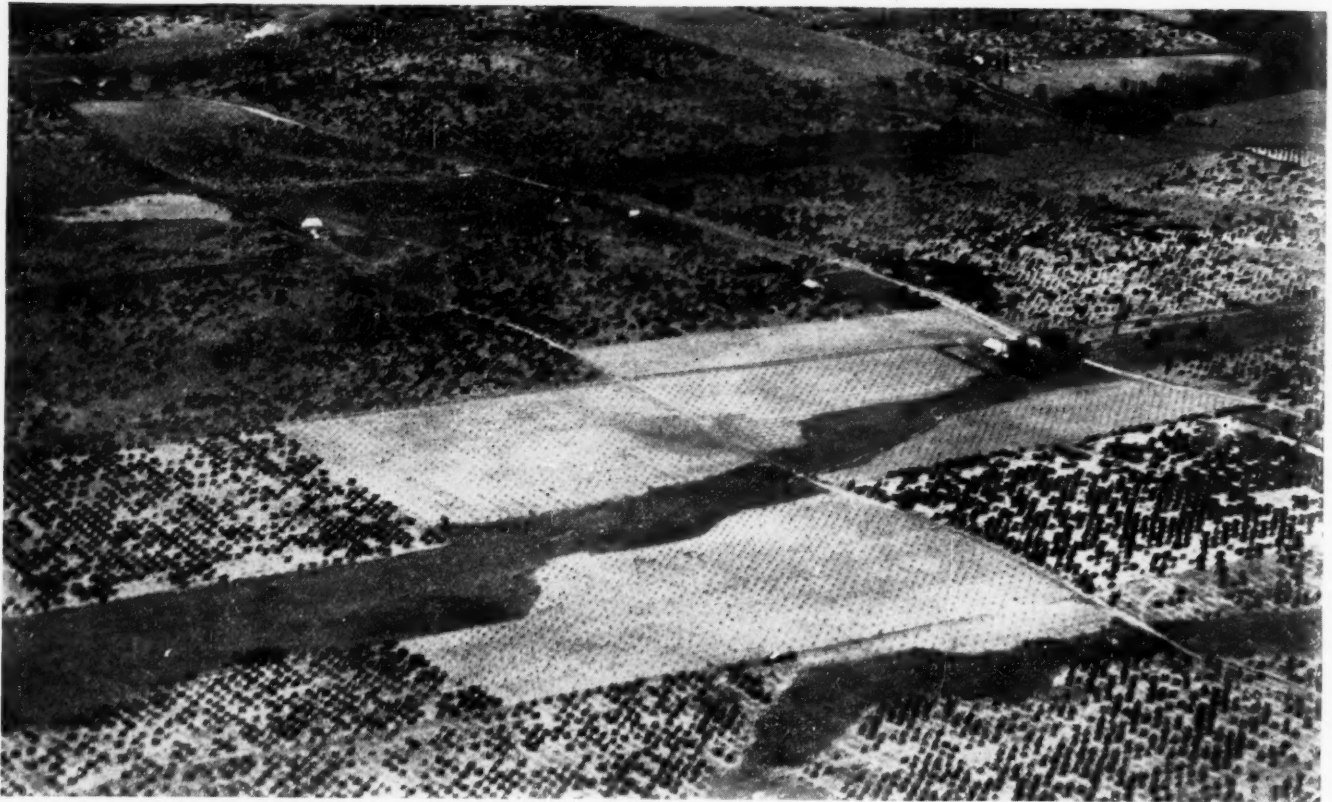
A RESIDENTIAL DISTRICT—GAINES STREET AT TWENTY-SECOND.

going on in the city, encouraged by the "open shop" policy, which permits reasonable building costs.

In a civic and social way, Little Rock is modern and progressive. Public buildings and institutions of modern and attractive design serve the people and house the representatives of national, state and city government. Handsome and well-appointed clubhouses are owned by many fraternal and social organizations, adding much to the beauty of the city and to the social welfare and pleasure. Conspicuous as examples of beautiful modern architecture are the great State Capitol, located on the crest of a hill in the center of a

Little Rock and North Little Rock, a thriving industrial city of 18,000 people, and carry 90 per cent of the traffic between the two halves into which the river cuts the state in its eastward flow. The twin bridges, the Army Memorial at Broadway and the Navy Memorial at Main street, just completed, are engineering triumphs of gracefully arched, reinforced concrete, powerful but beautiful, each an asphalt-paved boulevard sixty feet wide and one-half mile long, soaring over the river at a height which permits the largest river steamboats to pass, with a generous clearance through the arches.

Thirty-three public schools, employing 425 teachers, offer



AIRPLANE VIEW OF WHAT IS CLAIMED TO BE WORLD'S LARGEST PEACH ORCHARD IN PIKE COUNTY, ARK.

The Bert Johnson orchard shown above covers 5000 acres, of which 4200 acres are in peaches, principally Elbertas. The orchard is $9\frac{1}{2}$ miles long, from one-half mile to two miles wide and contains about 420,000 trees. According to Mr. Johnson, the claim that this is the largest orchard in one body and under one management has never been disputed. Emphasis is laid also on the high quality of fruit produced and the uniform pack. About 1200 cars of peaches will be shipped this year.

the children of Little Rock an excellent twelve-year course of education. Practically the entire city is newly paved with asphalt on concrete; sixty miles of asphalt highways lead from the city to Pulaski county's boundaries, connecting with automobile highways leading in every direction. Twelve theatres offer drama, vaudeville and motion pictures to the public, and swimming, hunting, fishing, Southern League baseball, college football and field sports, dancing, boating and golf add to the recreational amusements of the city. A new city park of 240 acres, well equipped for public recreation, is now being developed as headquarters for the great state fair which is held in Arkansas every year.

A mild temperature, one degree lower on the average than that of Los Angeles, Cal., combined with a 48-inch rainfall,

and an elevation varying from 300 to 600 feet above the Gulf of Mexico, encourages outdoor life the year around and promotes the health, vigor and prosperity of the people. Arkansas, known for years as the "Cinderella of the Southwest," has fitted on the glass slipper. Little Rock expects a population of 130,000 in the year 1930.

Some plain but interesting facts about Little Rock for 1923 may thus be summarized: Postoffice receipts, \$794,032.24; bank clearings, \$605,007,351.41; bank resources, \$46,200,522.72; building permits, \$3,065,027, exclusive of North Little Rock and Government work; city area, 14 square miles; North Little Rock, 6 square miles; public school enrollment, 13,889; North Little Rock, 3178; public school teachers, 386; North Little Rock, 88.



ARMY MEMORIAL BRIDGE CONNECTING LITTLE ROCK AND NORTH LITTLE ROCK.

The Conners Highway Opens Up a Country of Almost Limitless Possibilities.

A \$2,000,000 ROAD BUILT BY ONE MAN OF VISION AND FORCE.

By MYRTLE PUTNAM DAVIS.

One of the most beautiful places in the world is Palm Beach, Fla. Old Riviera fans now tout the exotic loveliness of the Palm Beaches, and, 30 hours out of New York, year after year they trade a jagged skyline for the graceful curve of coconut palms leaning with the trade winds which sweep in across a cool, green sea. Like a fertile oasis in its setting of sandy shore, this winter playground of America's favored people, this riot of tropical loveliness, of brilliant color and warm sand and blazing sunshine, rests like a sparkling jewel at the edge of the great Atlantic. Its very name is charm—beauty is its reason for existence.

Small wonder that in this most brilliant setting there should congregate people of like nature. Here the captains of American industry find rest and rejuvenation. Here they build homes which seem to have drifted across the sea from Spain, their women find the cream of Fifth Avenue shops without the congestion and tedium of New York shopping, and their children study under the palms in select schools.

No Florida resort is more widely known than Palm Beach. It was here that Flagler centered his interest and built his home. Palm Beach, however, is only typical of other East Coast resorts which, except St. Augustine, have sprung up later and competed sharply in their bid for favor, and have justly earned each their enthusiastic following. Miami, 70 miles to the south, flaunts its banner, "The Magic City," and leads all Florida cities in development statistics. To the north is Daytona, "The Finest Beach in the World"; Ormond, the winter home of Rockefeller, and St. Augustine, with its dreaming atmosphere of Old Spain. And connecting all these runs the best train service known to railways, and a broad, black ribbon of oiled road.

Thirty miles from the shore of the Atlantic to the interior of Florida lies an inland sea, named by the Seminole "Okeechobee," or "Big Water." It is the largest fresh-water lake entirely within the confines of any one state, 60 miles long by 30 miles wide. Take your time table, and on the map of Florida you will see that the tip of its toe is on a line straight west and a very little south of Palm Beach. At its head is Okeechobee City, a thriving little metropolis 10 years old. Around its upper shore is the northern boundary of the Everglades as surveyed, a strip of land geologically similar to the delta of the Nile, and as fertile, reclaimed from inundation by the state drainage program.

This muck land, as it is called, is so rich that it is worth \$19 a ton by chemical analysis as fertilizer. Comparatively free from frost, it is an ideal section for winter trucking. Hundreds of acres are planted to sugar cane, and its sugar industry has a bright future. The lake itself abounds in fish, its fishing industry aggregating a million dollars yearly. Just north of the lake, surrounding the townsite of Okeechobee, are fertile prairie and hammock lands, requiring little fertilizer and all underlaid with good subsoil, which insures economy in fertilization. This prairie land was originally a wild cattle range, and is particularly adapted to dairying, livestock and general farming, as well as citrus culture.

But no broad, black ribbon of oiled road links this inland empire with the outside world. Its fertile acres, for the most part, lie fallow, while \$29,000,000 worth of dairy products are

shipped into the state annually. The vanguard of its sugar industry struggles with its pioneer problems, while the housewives of New York sign their club pledges to boycott the price of sugar. True, there is a railroad. Ten years ago the Florida East Coast Railway built from New Smyrna to tap the lake region, Okeechobee City was born, and there the railroad stopped. "Jerry" comes in at night and goes out in the morning, and during the vegetable season extra trains carry out the products which are freighted across the lake on boats. Following the railroad Okeechobee county was created. It straightway proceeded to build a road from the east to the west line, and there it stopped. Okeechobee, in common parlance, at least until very recently, has meant the present home of the Seminole Indian, the wild turkey, deer and quail, canvasback and mallard, to be reached in hunting season by a long and circuitous route.

Some five or six years ago W. J. Conners, a capitalist of Buffalo, N. Y., came to Palm Beach to play. He has stayed to work. Quick to sense potential values, he first became interested in the soil of the lake region, and purchased several sections of land on the southeastern shore, which he began to develop on a large scale. As he met and faced the various problems of this pioneer development he came to be deeply in sympathy with the spirit of the country, with its needs and ambitions, and to be keenly appreciative of the stored wealth in this undeveloped and inaccessible region.

All South Florida was at this time crying "Roads!" Strangely enough, the road development in Florida, though it aggregates 10,000 miles of hard surface, more per capita than any other state, is sectional. North Florida is well covered with its network of good roads, and this network extends down through South Florida in three fingers, one pointing down the entire east coast, one down the west coast past Fort Myers, and one through the beautiful Ridge country of central Florida as far south as Sebring. With the connecting links lacking the Okeechobee section was isolated, and seeking steadily an outlet for its products, while to reach Tampa from the lower east coast meant to negotiate the three corners of a triangle. What was needed was the hypotenuse of the triangle, a direct route from Palm Beach and Miami to Tampa, connecting the tourist sections of the two coasts and of the interior, and linking the Okeechobee region with the outside world. One-third of this hypotenuse was finished, from Tampa through the Ridge country; another third, as far south as Okeechobee City, was partially built and in the hands of the State Road Department, but from Okeechobee City to the west boundary of Palm Beach county was a gap of 50 miles.

Here the difficulties to be encountered seemed almost unsurmountable. No road had heretofore been built through the Everglades, and it was known that dredges had sunk there; moreover, if a road could be built the problem of financing in this wild country could not be met by the usual method of bonding and taxation. A syndicate was proposed, with a franchise to be granted by the state to build over her reclaimed lands. "Will you take, say, \$2000 worth of stock," Mr. Conners was asked, "if the state will grant the franchise?" "If the state will grant the franchise," answered Mr. Conners, "I'll take it all."

And so the Conners Highway was begun. It is a private

toll road of first-class construction, conforming to state specifications in every way. It begins at the bend in the Palm Beach Canal and parallels that canal to the shore of Lake Okeechobee, thence following the shore to Okeechobee City. It is worthy of note because its construction has been a feat in engineering, and because it will advance the territory it influences possibly 25 years.

Mr. Conners does nothing by halves. To build his road he employed a corps of the most efficient engineers he could find, and provided their every requirement, offering no comment when, for instance, an unexpected dredging necessity arose which aggregated \$60,000. When the road was first started Mr. Conners remarked, "I'll build it if it costs \$600,000." When completed it will have stood him two million, and he is still smiling.

The unusual problems which were faced in the construction of this road were principally the unstable nature of the soil, particularly on the canal section, and the complete isolation of the major portion of the roadbed. To solve the first problem involved the provision of a foundation, on shifting soil, for what was expected to become one of the heaviest traveled, all-year-round motor arteries of Florida. Here the caterpillar principle of distributing the weight was employed, and the subgrade widened until it lay like a mat on its perilous foundation. The second problem involved the quartering of an average of 350 men for the 15 months which it has taken to build the road, and long hauls of materials. Camps and commissaries were, therefore, built and shifted as required, and fleets of trucks, barges and boats of all description plied between the base of supplies and the different points of construction, while work trains distributed the delivered material along the line of march.

The canals which lead out of Lake Okeechobee to the southeast have contributed largely to the construction of the Conners Highway. The spoil bank of the Palm Beach Canal, i. e., the material dredged out of the canal, provides the roadbed for that portion which parallels the canal, and where the St. Lucie Canal leads out of the lake sufficient lime rock was found to surface practically the entire length of the road. Here a crusher was installed, and the lime rock deposit taken from the canal was screened and washed and crushed to uniform content.

A list of the worldly possessions which Mr. Conners has acquired incident to the building of this road would be formidable in length and of interesting variety. He first purchased the townsite of Okeechobee, the surrounding township, and some additional 3000 acres of lakefront land. He then erected a complete sawmill and from the timber on his lands cut all the material for the camps and commissaries, warehouses, shops, etc.; for the 26 bridges which are built into his road, and the tollhouses, and for a construction program in Okeechobee, which includes a spacious office building for the company, a roomy and artistic bungalow for himself on the lake shore and several dwellings. Forty miles of telephone line is another item.

Mr. Conners' efforts to furnish South Florida with a cross-state highway have not been confined to that portion which he has built through the Everglades. He has worked untiringly to have completed the unfinished portions of State Road 8 west of Okeechobee, and contracts for all unfinished gaps have now been let and are to be completed in time for winter traffic. This portion of the cross-state highway is in the hands of the state, and the State Highway Board being unable at this time to finance the entire requirement, Mr. Conners has come to the front with the financing of the bridge across the Kissimmee River, and has been given the contract by the state to build this bridge. This construction will take about five months to complete, and will

employ a portion of the force which is about to finish the Conners Highway.

Conners Highway will open formally to the public on July Fourth, and a celebration befitting the occasion is being staged at Okeechobee. All South Florida is expected to attend, and preparations are being made to entertain 15,000 people. Fifty beeves and a hundred hogs are to be barbecued, promising a *piece de resistance* to be remembered, for the barbecue in this country is an ancient rite. The Seminoles are gathering for their Corn Dance, the rodeo highlights of the Florida ranches will exhibit their prowess, many beautiful floats are being designed for the parade; there will be ball games, all the customary Fourth of July concessions, and when darkness settles down the festivities will end with Mr. Conners' personal compliment to the occasion, a glorious display of fireworks.

It is scarcely possible to describe, to put in mere words, just what this day will mean to the inhabitants of the Everglades. Civilization at their door, after years of patient toil and loneliness and privation. The reward of faith and of striving. There will be happy faces in Okeechobee on that day.

And the Glades themselves will look through their first open door to the outside world. Other doors are opening to them already, but after July Fourth this great storehouse of Nature's bounty need wait no longer for the hand of man to till and reap her harvests.

Who can vision the growth and development and progress, the wealth and pleasure, the work and play that will cross the state on this shining ribbon of road? For the business man, all the principal commercial points of south and central Florida within six hours. For the tourist, from the East Coast's southern beaches to the beautiful waters of Tampa Bay in five hours, through that loveliest section of Florida's interior, the Ridge country, with its myriad miniature lakes and fine old groves. It is anticipated that the travel over this road during the winter season will aggregate 2000 cars per day.

Within a few months from the time Mr. Conners began his Highway the courage and vision of this modern empire builder were substantiated by the advent into the Everglades region of other arteries of commerce. The Florida East Coast Railway began its long promised extension of the Okeechobee Branch to Miami. This railroad, like the Conners Highway, follows the north and east shores of Lake Okeechobee. The Seaboard Air Line is crossing the state from the west and terminating at West Palm Beach, passing through Okeechobee City and touching the lake shore at a point nearby. St. Lucie county is hard-surfacing that section of State Road 8 between Okeechobee county's east line and Fort Pierce, on the Indian River. Work on these three projects is progressing steadily and promises completion in a matter of months.

With all these aids to progress and development the Okeechobee section will blossom as the rose. The soil of the Everglades along the shores of the lake is literally and truthfully as rich as any dirt in the world. It will produce any quantity of winter vegetables at a time when all other sections are non-producing. It has been rightly called the "sugarbowl of the nation," for it will easily feed America's sweet tooth. The prairie section to the north of the lake, when put under proper cultivation, will become a natural dairy section, and will raise as fine citrus fruits as any part of the state. Truly, this new Promised Land will flow with milk, and if not with honey, with cane-juice.

When Henry Flagler built his railroad down the East Coast of Florida he built alone, unsupported by his friends and business associates, spending a fortune in an invest-

ment on which he could not hope to realize during his generation. In the fullness of time it has paid rich returns; Flagler has earned a bronze statue in the city of Ponce de Leon and a lasting memory in this land of flowers and in the annals of American achievement.

The Conners Highway is not to be compared in mileage and expenditure with the Florida East Coast Railway. Yet in spirit and purpose they are the same, an adventure in faith, a dream of empire. And there is every reason to believe that the dream will be fulfilled, that the new avenue of commerce, like its illustrious predecessor, leads into a new country whose possibilities of future development are untold.

\$20,000,000 Company to Operate Bakeries in South—Take Over \$250,000 Plant at Charlotte.

Charlotte, N. C.—According to recent announcements, the Southern Bakeries Co. has incorporated under the laws of Delaware for the purpose of operating a chain of bakeries in the South. An important link in this chain, it is said, will be the plant here of the Carolina Baking Co., which is new and represents an investment of \$250,000. Other plants will include the cake-baking plant in Atlanta of the F. O. Stone Baking Co., and bakeries to be located at Greensboro and Gastonia, N. C.

General offices of the new organization will be located in New York, it is said, while Charlotte will have the parent plant. Officers of the company include Harry D. Tipton, New York, president; Herbert O. Miller, Charlotte, vice-president and general manager; F. O. Stone, Atlanta, vice-president, and J. W. Shumaker, New York, treasurer.

Work Begins on \$5,000,000 Power Plant.

Columbus, Ga., June 21.—[Special.]—Work has begun on the new \$5,000,000 dam and power plant of the Columbus Electric & Power Co. at Bartlett's Ferry, on the Chattahoochee River near here. A railway is being constructed to the site of the dam from the main line of the Chattahoochee Valley Railroad, six miles in length, and preliminary work is being done pending a license from the Federal Power Commission permitting actual construction.

Will Develop 100 Acres for Residences.

Tampa, Fla.—The development of 100 acres of ground for residences within the city limits of Tampa has been undertaken by the City & Suburban Realty Co., which plans to expend \$123,950 for the construction of roads and streets and the installation of gas and electricity, sewers and water mains. The company contemplates the erection of 150 residences, of which fourteen have been completed and six are under construction.

Water Company to Issue \$1,000,000 of Stock.

Huntington, W. Va., June 21.—[Special.]—The Huntington Water Co., supplying the city of Huntington with water has issued 10,000 shares of preferred stock, each share being valued at \$100. It has also issued 10,000 shares of common stock of no par value, but which takes the place of 2250 shares formerly issued. Headquarters of the company are in New York city.

To Colonize 3600 Acres in Arkansas.

Plans for colonizing 3600 acres of land in Arkansas are under way by the Southern Farms Co., Inc., John W. Dickinson, president, Little Rock and Dumas. The lands are located in Desha county and will be divided into 40-acre farms, on each of which will be a good tenant house and other improvements to suit the purchaser.

Erecting \$600,000 Bank Building.

Construction has begun on the proposed \$600,000 building to be erected at Baton Rouge, La., for the Louisiana National Bank. The building will be of reinforced concrete construction, 65 by 125 feet, eight stories, with concrete foundations and floors. Bedford stone on a granite base will be used for the exterior to the height of two stories and vitreous brick above, with terra cotta and stone trimming.



LOUISIANA NATIONAL BANK AT BATON ROUGE.

Vaults, safe deposit department and other facilities will be located in the basement, while the first floor will be entirely occupied by the bank, except space to be used for the elevator lobby. The ceiling in the banking room will be 28 feet high, the interior finish of the room to be of marble and bronze. Space for the directors' room and other facilities will be provided on the mezzanine floor, while the remaining floors will be devoted to offices. These will be served by two elevators.

Sanguinet, Staats & Hedrick of Houston, Tex., and Edw. F. Neild of Shreveport, La., are associated architects, and the Underwood Contracting Corporation of New Orleans is the general contractor. The Otis Elevator Co. of New York has contract for elevators.

\$2,000,000 Power Line to Be Built.

Charleston, W. Va.—It is announced here that the Virginian Power Co. of Charleston, J. E. Harsh, vice-president, will build a power line from Cabin Creek, W. Va., to Portsmouth, Ohio, through Huntington, at a cost between \$1,500,000 and \$2,000,000. The new line, it is said, will carry 132,000 or 200,000 volts, and its construction will provide additional outlet for the proposed 150,000-kilowatt hydro-electric plant to be constructed near Hinton, W. Va.

Coincident with this announcement, it is stated that the Virginian Power Co. has purchased the Portsmouth Public Service Co., which supplies electric power for that city. The purchase price is reported to be between \$3,500,000 and \$4,000,000.

For Flood Protection in Lower Rio Grande Valley— Work in Hidalgo County to Cost \$1,600,000.

Mercedes, Tex., June 21.—[Special.]—For preventing overflow of the lower Rio Grande Valley in time of flood, plans have been adopted for construction of a levee system and floodway to divert excess water into the Arroyo Colorado, which empties into the Gulf of Mexico about 50 miles north of the Rio Grande. Construction proposed contemplates a floodway to handle approximately 120,000 second feet, leaving 50,000 second feet through the river channel to provide protection for floods of 170,000 second feet or less. The plan provides for a floodway extending from Mission to Mercedes, 40 miles, and construction of several sections of levee.

Two inlets from the Rio Grande are provided—one at the Mission flume, where 30,000 second feet would be admitted, and one through the Granjeno basin, south of McAllen, which would provide for 90,000 second feet.

The floodway at some points would be more than a mile in width, narrowing down to approximately 2500 feet at some points.

Through Cameron county, alternate routes for the floodway are available, but no definite specifications have been drawn.

The cost of the work in Hidalgo county, according to a report of Charles F. Williams, Federal reclamation engineer, and W. G. Shaw, engineer at Mercedes, would be approximately \$1,600,000, and Hidalgo county now has voted a bond issue of \$1,620,000 for flood control. The issue will be for 20 years at 6 per cent. The project will require 22,400 acres for right of way, part of which already belongs to irrigation companies interested.

The levee on the south side of the floodway will be continuous from Mission to the head of the Arroyo Colorado, but on the north side the natural bench, supplemented by a low levee, will be sufficient. Much levee work along the Arroyo Colorado will be necessary to carry a large volume of water through this channel.

Union Miners Deprive Themselves of Work.

Charleston, W. Va., June 23.—[Special.]—Recent action of the international executive board of the United Mine Workers of America at Indianapolis in suspending the autonomy of District 17, covering northern and southern West Virginia high volatile territory, marks a crisis in the affairs of the union in the district mentioned, even though the action of the international board was taken at the instance of district and sub-district officials. The fact that policies of the international union have not been applied and enforced with sufficient vigor in the district is assigned as the reason for placing the affairs of the district in the hands of representatives of the international headquarters.

Insistence of the union upon a higher wage scale than market conditions justified, as stipulated in the Jacksonville agreement, is regarded as having been an important factor in bringing about a crisis in the affairs of district 17, since it has deprived many union miners of an opportunity to work, owing to the fact that a great many operators have not been able to pay the wages demanded. The situation now prevailing in District 17 is not unlike that which existed for a time in District 29, embracing the New River field. Miners gradually deserted the District 29 organization after requesting the operators to allow them to return to work under a scale lower than that fixed by the union prevailing, and about two years ago District 29 was dissolved. Of course, District 17 has been up until the present a good deal larger and a good deal stronger than District 29 ever was.

The miners of southern West Virginia who are working on a reduced wage scale, in open shop mines, are understood to be a good deal better off under existing market conditions

than the union miner. They are earning much more and have no part of their wages to turn over to the union, so that the real menace to the coal miner and to the industry is not the operator who has refused to be governed by the exigencies of the present market and the law of supply and demand, but the miners' union, which will not permit the union miner to work except upon an artificially high wage scale which precludes many operators from running their mines at all, and therefore prevents union miners from earning anything at all in many instances.

Iron Mining Methods in Alabama.

A detailed study of conditions affecting mine support and mine subsidence in the red iron ore mining district of Alabama is being made by Interior Department engineers attached to the Southern Experiment Station of the Bureau of Mines, Birmingham-Tuscaloosa, Alabama. The work includes a study of strength of ore and top-rock, failure of pillars and general conditions affecting mine support. The failure of top-rock has been given special attention, together with the determination of angle of break, both of these matters being closely connected with the problem of mine subsidence. Some 300 separate observations on angle of break have been made both on the surface and underground.

In connection with the proposed tests on crushing strength and deformation under pressure, 125 iron ore samples, cut into cubes and columns, have been sawed by diamond and carborundum saws and rubbed to bone finish. Samples of top-rock, rough ore and draw-slate have been collected and some 50 bars have been cut for binding strength tests. Crushing tests will be conducted at the Bureau of Standards, Washington, while bending strength tests will be made at the Carnegie Institute of Technology, Pittsburgh.

Promoting \$2,000,000 Irrigation Dam Project.

Brownwood, Tex., June 21.—[Special.]—An irrigation and hydro-electric project which will involve the construction of a \$2,000,000 dam at Narrows, below the confluence of Pecan Bayou and Jim Ned Creek, is being promoted here. Preliminary surveys have been made and it is stated that sufficient water could be stored to irrigate 30,000 acres of valley land. It is proposed to create an irrigation district and issue bonds, based on the value of the land to be irrigated. The Brownwood Chamber of Commerce is back of the project.

May Build \$2,000,000 Paper Mill.

Reports from Covington, Va., state that the Hollingsworth & Vose Co., Inc., Boston, Mass., has purchased a farm near Covington of 324 acres, on which it will build a big paper mill, expending between \$1,500,000 and \$2,000,000 for the construction of the first unit, which would employ several hundred workmen. It is said that plans may be made later for enlarging the plant. With reference to the enterprise, the company wires the MANUFACTURERS RECORD: "We have formulated no plans for building."

Power Company Will Acquire Site.

San Antonio, Tex., June 21.—[Special.]—The Comal Power Co. has been incorporated here with a nominal capital stock of \$1000 for the purpose of acquiring a hydro-electric power site on the Guadalupe River near New Braunfels. It is stated that the company is a subsidiary of the San Antonio Public Service Co. W. B. Tuttle of San Antonio, president of the San Antonio Public Service Co., is president of the new company.

Some Phases of Industry: No Limit to World Expansion of Activities.

By RICHARD W. EDMONDS.

In a paper presented recently before the Virginia section of American Engineers, Wm. J. Hammerstrom, chief engineer of the Lynchburg Foundry Company, discussed several important phases of American industry.

"Efficient management," said Mr. Hammerstrom, "is a phrase used extensively in modern industry and owes its origin perhaps to the well-known 'efficiency man.' Management to be worthy of its name must be efficient or it is mismanagement."

Efficient management is, of course, a purely relative term, the efficient management of the early days of an industry being found fatally inefficient as the industry becomes more highly organized and more intensely competitive; and, as Mr. Hammerstrom points out, "the butcher, the baker, the candlestick maker" as eligibles for executive positions are eliminated and highly-trained specialists take their places. For the demands of modern industry are too exacting to be satisfied with a loose, general knowledge and the rough-and-tumble methods of native but untrained ability.

Drawing a distinction between our industrial system and our public utilities, mining, lumbering, banking and other business fields, we have in this country alone, says Mr. Hammerstrom, an industrial system estimated to consist of about 300,000 establishments, employing between ten and fifteen million people. Since our whole social organization, down to the very fundamentals of our civilization, depends on the successful operation of all our intricately interwoven economic structure, of which the industrial system is so large and vital a part, it may be said that the welfare of civilization depends among other equally essential supports, upon the smooth functioning of our industrial system. With this fact clearly understood, the importance to every phase of civilized life of successful industrial management becomes apparent.

But it is easily possible to exaggerate the importance of efficient industrial management. Says Mr. Hammerstrom:

"The truly great nations of the world are those which are great industrially, and the future supremacy of America depends to a great extent on how well organized and managed our industries are."

The first clause of the above sentence is, of course, not correct, and Mr. Hammerstrom, in the first part of the paragraph from which the quotation is taken, inadvertently illustrates the fallacy.

"Germany, before the war, was a great people industrially," he says; and I believe it is pretty generally considered that Germany had carried industrial efficiency to a higher pitch than any other nation on earth. But Germany overlooked the greatest factor in the true greatness of a nation, just as did Mr. Hammerstrom, for it had become to a great degree an atheistic nation, ignoring the far higher spiritual development in favor of the purely intellectual and thus prepared the way for her downfall. He added:

"With the development of the large-scale industries, so common in America today, many new conditions have sprung up unknown to the industry of former years. The question, however, of labor is one which has remained with the industry through all its stages of development. The common meeting ground to settle the many disputes between capital and labor is yet to be found, although much time has been spent and many sincere efforts made to solve this apparently most difficult problem. Progress has been made, however, towards a better understanding with a mutual respect for human nature, based on a recognition of the fact that no individual or group of individuals is self-sufficient, but each has need of the other."

It is probably true that in this field progress has been

made, yet the gross progress is to such a great extent offset by serious retrogressive and destructive tendencies that the net progress is pitifully small by comparison with the great amount of thought and suffering that have gone into the problem. A more reasonable and just attitude has been reached in regard to the rights of labor and the responsibilities of the employer, and reasonable working hours have been agreed upon in most industries. But opposed to these progressive tendencies is the destructive communistic idea that the laborer should be paid "a living wage," or, in other words, should be paid in proportion to his needs rather than in proportion to his producing capacity; and since his needs are determined chiefly by his and his wife's ability to produce offspring, the amount he takes out of the economic bag bears no relation whatever to the amount he puts in.

It is surprising what a variety of aspects this idea presents to different people. To some whose hearts are greater than their brains it wears a benevolent appearance and the attractive expression of "advanced thought." To others, whose greed for immediate gain far outruns their capacity for logical thought, it appears as the Utopian substitute for hard work. To a third class it is just plain robbery, while to a fourth it appears simply another of those futile, childish attempts to suspend the inexorable operation of the law of supply and demand.

Speaking of standardization, that fruitful aid to industrial efficiency, Mr. Hammerstrom said: "In common with other industrial factors, it has faults and virtues, and the task of segregating the bad points from the good ones is not a little undertaking."

Standardization enthusiasts, with their imaginations inflamed by enthusiasm for a practice that has such great and obvious advantages, are inclined to take the bit in their teeth and run headlong through the bounds of reason, thus injuring alike the cause and the public interests. But the great need for standardization wisely applied, in order that the units of an industry may compete honestly with each other through putting on the market a product that, the buyer may safely assume, embodies the certain, agreed-upon, fundamental requisites that go to make up the product its name proclaims it, is unquestionable, and is well illustrated by an instance recently related by Secretary of Commerce Herbert Hoover in speaking of the efforts of the Department of Commerce to standardize the lumber industry. He said:

"In the toil of formulating these standards there arose a question of how thick a one-inch board should be. It sounds easy. But it quickly developed to be a question whether it should be one inch thick when it was green, after it was dried, when planed on one side, or when planed on both sides. It developed not only that a choice had to be made among these four alternatives, but also that this choice had to be based upon a proper consideration for the conservation of our forests, on one hand, and the provision of a material of such structural character as to constitute a square deal to the consumer, on the other. It also developed that there were 32 different thicknesses of a one-inch board in current use, and that some minority of manufacturers in the drive of unfair competition were gradually thinning the board until it threatened to become paper."

Says Mr. Hammerstrom: "The strongest economic and profit-making reason for standardization of products are: (1) lower labor cost; (2) interchangeability of parts; (3) low capital investment; (4) less idle equipment; (5) prompt and speedy delivery through stock."

While these may be the strongest profit-making reasons, I

believe Mr. Hammerstrom will agree that not the least of the reasons under an all-inclusive heading is the granting of a square deal to the consumer.

Speaking finally of the great and unceasing expansion that has been and is in progress in industry, Mr. Hammerstrom asks, "How long can these expansions continue and what will be the breaking point?" And he expresses the belief that if there is a limit, and if there is to be a breaking point, at least it is very far in the future.

Surely the man is not yet born who will see the industries of the world developed to such a point that the world will be oversupplied. Markets are being expanded, and will continue to expand, in two ways, and to neither has any limit yet been found. First, the per capita consumption of most staples such as iron and steel is steadily increasing in this and other countries. Second, new markets are being found and developed in countries far below the level of the world's average economic development, and as these backward countries come forward their needs will approach our own. Thus the demand grows apace, and our industries can safely continue to multiply their productivity beyond the range of human vision.

264 Flaxhill Road,
South Norwalk, Conn.

Asks Authority to Issue \$3,000,000 of Bonds— Georgia Railway & Power Co. Carrying Out \$18,000,000 Development Program.

Atlanta, Ga.—Authority has been requested of the Public Service Commission by the Georgia Railway & Power Co. to issue \$3,000,000 of bonds, proceeds of which will be used for the development of water-power facilities in the vicinity of Tugalo, Tallulah and Burton dams. The proposed issue will cover a portion of the construction work planned for the last six months of this year, and is a step in the company's plans for financing its \$18,000,000 development program begun early in 1923 and expected to be completed by the end of 1926.

Projects recently completed include substations at Toccoa, Commerce, Winder, Marietta, East Point and Cornelia, together with numerous enlargements of service, such as transmission lines from Tallulah to Tugalo, to Toccoa, to Commerce, to Winder, to Norcross and to Marietta, beside the Lindale-Summerville high-tension line. Two steam plants at Atlanta and water-power plants at Morgan Falls and Bull Sluice have also been modernized.

Work is in progress on transformer stations at Summerville, Lafayette, Chickamauga, Dalton, Roswell, Flowery Branch and a network of transmission and distribution lines, in addition to dams and power plants under construction.

The program now under way provides for the full development of the Tallulah and Tugalo Rivers, it is stated, and upon its completion will mean that waters of these rivers will be utilized six times in the generation of power, developing a 1200-foot fall to a maximum capacity. At the head of the river the Burton power plant will be built at Burton dam, while six miles below the Nacoochee dam and power plant will be built, construction to begin in 1925. Below this will be Lakemont Lake to feed water into a one-mile tunnel ending at the Terrors power plant at the head of Tallulah Lake, a development to be finished about the last of this year. In succession will come the Tallulah power plant, Tugalo dam and power plant recently completed, and the Yonah dam and power plant begun this year.

As outlined in the MANUFACTURERS RECORD early last year, completion of the entire program of the Georgia Railway & Power Co. will increase its deliverable output from 272,000,000 to 635,000,000 kilowatt hours per year.

Tallahassee to Hold Legislative Council Centennial.

North Florida Chamber of Commerce.

Tallahassee, Fla., June 20.

Editor Manufacturers Record:

Tallahassee, "The Hill City of Florida," is preparing to celebrate the centennial of the first Legislative Council meeting during the week of November 9-13, 1924. Local organizations are co-operating to make an interesting program, which will include pageants, entertainments at the Florida State College for Women, the Leon County Fair, athletic contests, concerts, a historical costume ball and other features.

On Armistice Day the American Legion will have charge of the parade program, which will include prizes for the best historical floats. On the site of the original Capitol building, where the Legislative Council met, a reproduction of the log Capitol will be erected and be used as an information booth. There are several interesting natural wonders and historical places in and near Tallahassee and excursions will be arranged so visitors can see them.

F. R. S. PHILLIPS, Secretary.

Award Contract for \$700,000 Finishing Plant.

The Champion Fibre Co., Canton, N. C., has closed a contract with the Aberthaw Construction Co. of Boston and Atlanta for an addition to its big paper mill. The work calls for the erection of a finishing plant of reinforced concrete, two stories and basement, with brick curtain walls. The building will be approximately 130 by 200 feet, and is estimated to cost \$700,000. H. S. Taylor of Dayton, Ohio, is the architect.

Practically all building material has been purchased, as well as machinery, and it is expected to have this unit ready for operation by October 1. It will provide facilities for finishing 100 tons daily output of fine bond, book and Kraft papers made on a machine now operating, with a second machine to be installed in this building.

As detailed in the MANUFACTURERS RECORD several weeks ago, the Champion Coated Paper Co. of Hamilton, Ohio, has acquired control of the Champion Fibre Co., which employs about 1200 workmen.

Salem Glass Company to Resume.

Salem, W. Va., June 6—[Special.]—The delivery of two Miller press and plow machines at the plant of the Salem Flint Glass Co. here promises an early resumption of operations at this plant, which has been shut down for several months. Originally the company manufactured lamp chimneys, but in the future will manufacture tumblers, salt and pepper shakers, glass dishes, cigar holders and ash receptacles, as well as other novelties. From 35 to 40 people will be employed.

"Domestic" Exhibit at Good Roads Show.

In the official list of exhibitors at the North Carolina Good Roads Show as published recently in the MANUFACTURERS RECORD the name of the Domestic Engine & Pump Co. of Shippensburg, Pa., should have been included. It was omitted by mistake. The company writes that their exhibit included the following equipment: "Portable Air Compressor Units and Triplex High Pressure Force Pump Unit with four cylinder engine." Through their Greensboro distributor, E. F. Craven, they showed a "Domestic High Pressure Triplex Pump Unit with four cylinder power plant, a Double Diaphragm Pump Unit, and a Single Diaphragm Pump Unit," also other equipment. We are glad to publish this supplementary information.

An American Engineer's Experience in Europe.

A STRIKING CONTRAST BETWEEN THE FRENCH PEOPLE AND THE GERMAN INDUSTRIALISTS WHO ARE ROBBING THEIR OWN PEOPLE TO MAKE READY FOR ANOTHER WAR TO CONQUER THE WORLD.

By H. M. LANE, President of The H. M. Lane Company, Industrial Engineers, Detroit.

From personal observation in six months in Europe last year, rearranging industrial plants and introducing American methods, and also in reporting on a number of French plants as to their ability to do certain work, it is an interesting thing to notice the underlying condition in which the French people live. They are essentially a happy people, a people who do not believe in whining or crying and a people thoroughly content to live within their own borders and be as self-supporting as possible.

Few Americans realize that France is the nearest to a self-supporting nation in Europe. It produces about 90 per cent of wheat and by far a greater portion of its foodstuffs. The French do not care to build up an export trade in heavy iron and steel products, but only want to export those things in which a certain amount of human labor enter, as, for instance, the higher grade dress goods, ribbons, laces, art goods, high-class chinaware and dishes and other similar products.

The French people have another interesting characteristic, and that is that any people who go to live with them, such as those who intermarry, are quickly absorbed, and this is particularly true of Italian or Spanish immigration. Against this, one must place the fact that thirty-odd times in 2400 years this land has been invaded by tribes from the east and the northeast and they have had to fight themselves free. During the same period, the territory to the east and northeast has been invaded by the French five times.

Bismarck said many years ago that war paid better than commerce, and for over 50 years the German people have been educated to this belief, and this form of education has made possible the thing that has taken place. In the first place, the Germans invaded France and their people were given to believe that they had to do it; that if they did not do it, France would come and conquer them. One might say much about the factors previous to the war, but present factors are now the topic.

With the collapse of the German Army and the retreat and exile of the Emperor, within a period in which a few industrialists have gained control and to a large extent replaced the reign of the emperor, in this case it is well to call attention to one thing: The King of England rules, but does not reign; the Emperor of Germany both ruled and reigned, and the German people had been used to endless limitations and careful supervision of their movements.

These industrialists took over the situation to their own benefit. Germany is busy from one end to the other. The factories are all running, the people are working long hours, but they are not working for their own country or for themselves, as is the case of the French people. They are working for personal aggrandizement of less than one hundred Germans. One can go into any store in this country, and particularly the five and ten cent stores, and find the shelves loaded with German goods. How do they get there? Some German comes over here and sells, say, \$100,000 worth of goods and goes home to manufacture them, but before they are manufactured, by manipulation the mark is driven down to such a point that in place of the 20 to 25 per cent profit there is on the order, when delivered to the foreign market,

approximately 100 per cent profit. They only take to Germany sufficient foreign funds to care for raw material and labor in a depreciated currency and the balance of the money is deposited in foreign countries.

The Germans learned a lesson in the war and are exceedingly careful how they now deposit this money, but there are huge sums, running into billions of dollars, being held outside Germany, which has been made by this favored few. In the meantime, by manipulating the mark down, they have created in Germany famine conditions which they have played as a card to get sympathy in foreign nations. The only industries in the world which have not been heavily taxed by their own Governments to pay the debts of the war are the German industries. The German war was almost wholly financed in Germany on a mark basis, and depreciation of the mark has wiped out this debt. The Germans complained of the 35 per cent French tax on coal in the Ruhr, claiming that it made it possible for them to export steel and yet there are coming to this country thousands of tons of German steel, fabricated into knives, electric flatirons and a thousand and one similar articles, which are being sold at a very small per cent of our cost of manufacture.

There has never been as gigantic piece of deceit foisted on the world as that which is now being given out in Germany. The deliberate breaking down of the currency to avoid home payment and the creating of internal distress to avoid foreign payment, when taken into consideration with the accumulation of the absolutely unheard-of fortunes on the part of a favored few, presents a situation that the world has never seen before. German money is being used in many countries freely to obtain certain political ends, and those who are at the head plan, in the first place, never to pay any debts they owe resulting from the war, and, in the second place, to break down foreign commerce by underselling it in their markets, as they now are doing.

On the French side of the border there is a very different situation. The French have worked unheard-of hours, rebuilding first their industries, second their transportation needs, and third their houses, but they have tried not to let their medium of exchange, the franc, depreciate too much. The main depreciation that has occurred has been through German manipulation and through the fear that reparations will not be paid. In the early '70s the French paid their debt promptly and have always paid similar debts promptly, while the Germans are planning to repudiate and cripple. The German steamship companies were able to pay off their heavy bonded indebtedness for a song with the depreciated mark, and they have now built the beginning of a great fleet at a price per ton of carrying capacity which is a mere fraction of that that has cost any other nation to build their boats, and hence they will be in position to underbid all others in ocean-carrying fleets. One could go on and detail many other points in this carefully worked out plan for the war after the war, but will only call attention to one or two things which may prove serious obstacles to their plans:

In the first place, it seems that the commercialists are going too far with the patience of the German people, and in spite of the fact that they have had 50 years of careful education in obeying, there are decided signs of a break. Burglary and theft were almost unknown in Germany previous to the war, but today they are much more common than in this country. One of the directors of a large German

concern said recently that his house had been burglarized three times in six months, and this was not an unusual record. Red propaganda is edging its way through the underlying elements of the German nation and the world may witness a blow-up which would very seriously affect Germany and very seriously affect the rest of the world.

An interesting fact noted by all tourists in southern Italy and other parts of Europe this winter was that the places usually taken by the spendthrift Americans in the expensive hotels, etc., was now taken by the newly-rich Germans and that they were spending money more recklessly than any other type of foreigners.

An engineer who was educated in Germany was able to go back there and the Germans did not know that he had ever been in England or the United States, as he is of Norse extraction. They talked to him more freely than they would to those on this side, and also persons of Swiss or Russian origin were able to get the real attitude of the Germans, and the universal thought is that the next twenty-five years the Germans expect to conquer Belgium and France, later England, and that they then expect to settle their score with the United States, so that America will be out of their way in South America or anywhere else; in other words, they fully expect to rule the world in the next 50 years, and in the meanwhile they do not expect to pay anything if they can help it. There is an enormous amount of propaganda coming from Germany, and the deplorable fact is that the people sending it out believe every word that they are saying and have absolutely no idea that they are victims of a deliberate plan.

German factories and materials were not destroyed and earning power was not reduced any more than that of the two other principal contestants in the war. As far as raw materials and man power is concerned, Germany is in better position than either England or France to pay, but the few controlling the situation are carrying out a deliberate plot in an attempt to win, in another way, what they failed to do on the battlefield.

New Development for Severn River.

Discussing its plans for the development of Severn River property near Annapolis, Md., the Herald Harbor Co., Edward S. Hine, director of sales, Washington, D. C., states that beaches are being cleaned and bathhouses erected. A new road is being built by Anne Arundel county and the State Roads Commission. Sixty bungalows and cottages have already been ordered and 140 others are in prospect.

Arrangements have been made for the erection of a tea room, restaurant, hardware store, gas station, house-furnishing store, general merchandise store, all in the business section of the development. Negotiations are also under way for a hotel and moving-picture house. A number of houses are being erected by Lewis Homes Co. and the Meredith Lumber Co. of Annapolis, while much of the work is being handled directly by the Herald Harbor Co. It is at present constructing a baseball park and tennis court, and plans to construct dock, pier, dance hall and public garage.

Modern Sanitarium at Nokomis.

Nokomis, Fla.—It is announced here that Dr. Fred M. Albee, surgeon of New York city, plans to take up his permanent residence at Nokomis, a town in which every house is of stucco and built after plans approved by Dr. Albee's architects. He has added to his holdings in this vicinity, bringing his total acreage to 2500. His plans are said to involve the erection of a modern sanitarium here for the accommodation of winter patients and at which his operations during the winter will be performed.

\$2,500,000 Addition to Hotel at St. Louis.

The Hotel Jefferson Co., St. Louis Mo., of which Lyman T. Hay is president, is having plans prepared by the T. P. Barnett Co. of St. Louis for a \$2,500,000 addition to Hotel



HOTEL JEFFERSON, ST. LOUIS, AS IT WILL APPEAR WHEN ADDITION IS COMPLETED.

Jefferson at 12th, Locust and St. Charles streets. The addition will be 102 by 150 feet, 13 stories, of reinforced concrete construction, with concrete foundations and floors. It will contain 405 rooms. Date of awarding construction contract has not been determined.

Clay Products Company Completes Plant.

The Owensboro Clay Products Co., Owensboro, Ky., advises the MANUFACTURERS RECORD that it has completed construction of its new plant, which is designed for 12 kilns and may be brought to capacity by the addition of kilns on the original plans and the installation of another dryer.

J. M. Cutshall & Son of Brazil, Ind., are general contractors for the building, while machinery was purchased from E. M. Freese & Co. of Gallion, Ohio, and the Manufacturers' Equipment Co. of Dayton, Ohio. Dryer cars were purchased from the Chase Foundry & Machinery Co. of Columbus, Ohio; fire brick from the Louisville Fire Brick Co., Louisville, Ky., and common brick from the West Point Brick Co., West Point, Ky.

South Carolina Power Plant.

Columbia, S. C.—At a recent meeting in this city of the Columbia Canal Commission, of which Senator T. B. Butler of Gaffney is chairman, definite steps were taken for the construction of a hydro-electric power plant to develop 500 horsepower reserved to the state in the act of 1887. A power house will be erected on the west bank of the canal, the commission having requested engineers to submit estimates at its next meeting on June 17. It is thought that the development will cost \$75,000 or less, and that the plant, when completed, will be of sufficient capacity to furnish light and power for all state institutions.

To Develop South Richmond Tract.

Richmond, Va.—Plans for the development of a large tract of land in South Richmond, involving the construction of roads and streets, installation of water, sewers and lights and the erection of a number of dwellings, are being considered by John T. Wilson of this city. Under a proposed agreement with the city, Mr. Wilson will grade, gravel and otherwise improve streets, build homes and dedicate the streets and alleys to the city. The city will be required to provide sewers, water and gas as the territory develops.

Portland and Other Cement Production and Shipments in 1923.

The Department of the Interior issues the following statistics of the cement industry compiled under supervision of Ernest F. Burchard of the Geological Survey. The figures include slight revisions made since the publication of preliminary estimates released April 10.

The quantity of Portland cement produced in 1923 was 137,460,238 barrels, which was about 20 per cent greater than in 1922 and was the greatest quantity produced in any year. Shipments from mills likewise made a high record, showing

an increase of 15 per cent over those of 1922. Stocks at the mills also increased, reaching a total of 10,900,370 barrels on December 31. The average factory price per barrel in bulk in 1923 was \$1.90, an increase of 14 cents or 8 per cent as compared with 1922. The capacity of the existing mills was estimated at the end of 1923 as 161,858,000 barrels annually. This figure includes the output of 8 new mills completed during 1923.

The output of hydraulic cement, other than Portland, name-

PORTLAND CEMENT PRODUCED, SHIPPED AND IN STOCK, 1922 AND 1923, BY DISTRICTS.

Commercial District	Active plants		Production Barrels		Stock Barrels	
	1922	1923	1922	1923	1922 (revised)	1923
Eastern Pennsylvania, New Jersey and Maryland.....	22	22	31,195,617	35,721,751	2,295,324	1,883,112
New York	9	9	5,922,706	6,990,174	516,151	653,263
Ohio, Western Pennsylvania and West Virginia.....	10	11	10,753,301	13,495,799	776,261	1,060,680
Michigan	12	14	6,243,805	7,619,792	630,383	783,892
Illinois, Indiana and Kentucky.....	10	10	17,998,914	21,193,666	1,434,407	1,571,159
Virginia, Tennessee, Alabama and Georgia.....	8	11	5,954,043	7,908,846	169,597	457,593
Eastern Missouri, Iowa and Minnesota.....	9	10	11,392,552	14,037,099	1,516,568	1,929,494
Western Missouri, Nebraska, Kansas and Oklahoma.....	11	11	8,025,720	9,779,034	956,887	1,162,918
Texas	5	5	3,628,756	4,178,895	190,762	278,373
Colorado and Utah.....	5	5	2,020,784	2,427,971	202,608	290,193
California	9	9	8,711,515	11,001,910	292,486	411,594
Oregon, Washington and Montana.....	8	9	2,942,271	3,105,301	370,816	418,099
	118	126	114,789,984	137,460,238	9,352,250	10,900,370

SHIPMENTS OF DOMESTIC CEMENT FROM MILLS INTO STATES AND PER CAPITA, 1922 AND 1923.

State	Population (estimated as of Jan. 1, 1923), a	1922 Shipments to States (barrels)		1923 Shipments to States (barrels)	
		Total	Per capita	Total	Per capita
Alabama	2,413,092	998,009	0.41	1,489,531	\$.61
Arizona b	374,274	633,999	1.69	485,544	1.25
Arkansas b	1,807,132	498,075	.28	848,509	.46
California	3,751,111	8,356,362	2.23	10,373,163	2.69
Colorado	983,078	1,093,026	1.11	1,106,920	1.11
Connecticut b	1,462,790	1,262,018	.86	1,441,271	.97
Delaware b	229,394	353,201	1.54	404,996	1.75
District of Columbia b.....	437,571	661,865	1.51	756,723	1.57
Florida b	1,035,170	924,112	.89	1,299,746	1.23
Georgia	2,984,429	1,084,395	.36	1,424,552	.47
Idaho b	464,705	257,253	.55	291,029	.61
Illinois	6,746,917	9,667,741	1.43	12,237,478	1.79
Indiana	3,001,314	3,894,909	1.30	5,010,588	1.66
Iowa	2,459,411	3,246,436	1.32	3,624,857	1.46
Kansas	1,793,456	2,692,345	1.50	2,613,070	1.45
Kentucky	2,455,790	1,163,279	.47	1,566,682	.63
Louisiana b	1,842,427	906,467	.49	1,028,520	.55
Maine b	775,938	461,749	.60	510,339	.66
Maryland	1,497,347	1,547,304	1.03	1,827,684	1.21
Massachusetts b	4,002,518	3,045,511	.76	3,124,238	.77
Michigan	3,933,619	6,196,586	1.58	7,531,664	1.87
Minnesota	2,483,357	3,555,842	1.43	3,414,916	1.36
Mississippi b	1,790,618	422,591	.24	457,907	.26
Missouri	3,438,268	3,017,859	.88	3,492,453	1.01
Montana	602,298	265,294	.44	280,682	.45
Nebraska	1,328,557	1,606,062	1.21	1,497,040	1.12
Nevada b	77,407	91,646	1.18	92,760	1.20
New Hampshire b	446,948	365,210	.82	359,574	.80
New Jersey	3,347,097	5,116,282	1.53	5,400,703	1.46
New Mexico b	370,563	269,351	.73	222,482	.59
New York	10,778,171	13,272,157	1.23	15,881,436	1.46
North Carolina b	2,668,153	2,284,502	.86	3,108,367	1.15
North Dakota b	668,446	284,422	.43	302,734	.45
Ohio	6,066,019	7,770,331	1.28	8,843,641	1.43
Oklahoma	2,142,966	2,023,392	.94	2,120,313	.97
Oregon	817,572	943,819	1.15	956,320	1.15
Pennsylvania	9,045,997	10,457,809	1.16	11,281,290	1.23
Rhode Island b.....	623,490	453,950	.73	509,584	.81
South Carolina b	1,735,739	628,952	.36	626,912	.36
South Dakota b	652,820	507,084	.78	564,807	.86
Tennessee	2,385,193	939,174	.39	1,267,245	.53
Texas	4,900,145	2,892,922	.59	3,328,619	.67
Utah	472,895	450,460	.95	470,186	.99
Vermont b	352,428	213,255	.61	234,182	.72
Virginia	2,385,690	1,432,326	.60	1,742,200	.72
Washington	1,422,945	1,750,811	1.23	1,926,019	1.33
West Virginia	1,538,662	1,478,476	.96	1,817,112	1.16
Wisconsin b	2,724,215	4,584,298	1.68	5,064,404	1.84
Wyoming b	209,369	228,265	1.09	348,805	1.63
Unspecified		55,813	....	87,516	....
	109,955,947	116,306,997	1.06	134,703,313	1.21
Exports reported by manufacturers, but not included above d.....		1,394,219	....	1,208,805	....
Total shipped from cement plants.....		117,701,216	....	135,912,118	....

a Bureau of the Census. b Non-cement-producing State. c Population January 1, 1920. d Includes shipments to Alaska, Hawaii and Porto Rico. e Total for continental United States.

ly, masonry, natural, and puzzolan cements, showed an increase of 43 per cent in 1923 over 1922. The total shipments from the 10 operating plants was 1,271,674 barrels valued in bulk at the mills at \$1,947,352.

PORTLAND CEMENT SHIPPED, 1922 AND 1923, BY DISTRICTS.

District	Shipments		Average	
	1922	1923	factory price	per barrel
Commercial District	Barrels	Barrels	1922	1923
Eastern Pa., N. J. and Md...	31,897,649	36,133,963	\$1.63	\$1.81
New York	6,194,663	6,853,062	1.73	1.87
Ohio, Western Pa. and W. Va.	11,040,908	13,211,380	1.68	1.83
Michigan	6,349,751	7,466,283	1.76	1.88
Illinois, Indiana & Kentucky	18,676,656	21,056,914	1.61	1.76
Va., Tenn., Ala. and Ga.	6,158,652	7,620,850	1.76	1.86
Eastern Mo., Iowa and Minn.	11,657,484	13,624,173	1.68	1.84
West. Mo., Neb., Kans. & Okla.	7,967,266	9,573,003	1.83	1.90
Texas	3,730,477	4,091,284	2.01	1.96
Colorado and Utah	2,063,500	2,340,386	2.23	2.21
California	9,041,788	10,882,802	2.26	2.39
Oregon, Wash. and Montana	2,922,422	3,058,018	2.42	2.44
	117,701,216	135,912,118	\$1.76	\$1.90

PORTLAND CEMENT MANUFACTURING CAPACITY BY COMMERCIAL DISTRICTS, 1922 AND 1923.

District	Estimated capacity	
	1922	1923
Eastern Pa., N. J. and Md.	41,921,000	42,195,000
New York	8,567,000	8,306,000
Ohio, Western Pa. and W. Va.	12,133,000	15,090,000
Michigan	7,930,000	9,346,000
Illinois, Indiana and Kentucky	21,550,000	22,296,000
Virginia, Tennessee, Alabama and Georgia	7,113,000	10,719,000
Eastern Missouri, Iowa and Minnesota	14,177,000	16,580,000
Western Mo., Neb., Kans. and Okla.	10,215,000	11,795,000
Texas	4,425,000	4,642,000
Colorado and Utah	2,850,000	3,025,000
California	10,464,000	12,594,000
Oregon, Washington and Montana	4,858,000	5,270,000
	146,203,000	161,858,000

Increased Cotton Acreage in Lower Rio Grande Valley.

Harlingen, Texas, June 23.—[Special.]—Notwithstanding the fact that it was in the lower Rio Grande Valley that the cotton boll weevil entered the United States from Mexico, many years ago, the growing of the staple in this region is being done on a more extensive scale this year than ever before. The area planted to cotton is about 200,000 acres, which is an increase of approximately 40,000 acres over last year.

In order to care for the prospective crop, fourteen additional gins have just been built or are under construction in the different towns of the Valley. These new gins will bring the total number in the Valley up to 58.

It is stated that the cotton plants show a considerable infestation of boll weevils, but that a large yield of cotton should be obtained despite the pest. Besides the cotton that is grown in the lower Rio Grande Valley by means of irrigation, a large acreage of dry-land cotton is planted in the adjacent territory this season. Up to this time the rainfall has been timely and abundant, and the non-irrigated crop gives promise of larger yield.

Will Build \$500,000 Transmission Line.

Birmingham, Ala.—In line with the announcement in the MANUFACTURERS RECORD last week that the Alabama Power Co. would expend \$119,000,000 in the next twelve or fifteen years for the development of hydro-electric operations in Alabama comes the statement that construction will begin at once on a 44,000-volt transmission line from Hapgood to Decatur to cost \$500,000. Permission for the construction of this line has been granted the Alabama Power Co. by the Alabama Public Service Commission, and it is stated that surveys have been made and material is on the ground.

The completion of this line will link the Gorgas transmission line, recently purchased by the Alabama Power Co., and the line supplying electricity to Huntsville. A transformer station will be erected at Hapgood on the Gorgas line, it is said, which will serve the main distribution line to Decatur, one to Cherokee and one to Russellville.

PORTLAND CEMENT PRODUCED AND SHIPPED, 1922 AND 1923, BY STATES.

State	Shipments		Average	
	1922	1923	factory price	per barrel
Alabama	2,324,116	3,395,392	\$1.78	\$1.84
California	9,041,788	10,882,802	2.26	2.39
Illinois	6,554,945	7,129,208	1.61	1.76
Iowa	4,475,074	5,570,675	1.72	1.86
Kansas	4,556,517	5,878,839	1.79	1.85
Michigan	6,349,751	7,466,283	1.76	1.88
Missouri	6,239,144	7,143,883	1.68	1.85
New York	6,194,663	6,853,062	1.73	1.87
Ohio	2,913,034	4,003,321	1.80	1.90
Pennsylvania	34,023,695	38,610,852	1.63	1.81
Texas	3,730,477	4,091,284	2.01	1.96
Washington	1,951,414	2,111,479	2.40	2.36
Other States (a)	29,346,598	32,775,038	1.73	1.86
	117,701,216	135,912,118	1.76	1.90

State	Active plants		Production		Increase 1923 (per cent.)
	1922	1923	1922	1923	
Alabama	3	5	2,290,884	3,497,256	53
California	9	9	8,711,515	11,001,910	26
Illinois	4	4	6,407,129	7,147,906	12
Iowa	4	5	4,272,432	5,732,470	34
Kansas	7	7	4,634,287	6,025,657	30
Michigan	12	14	6,243,805	7,619,792	22
Missouri	5	5	6,170,633	7,305,997	18
New York	9	9	5,922,706	6,990,174	18
Ohio	5	6	2,835,243	4,188,755	48
Pennsylvania	22	22	33,276,093	38,157,482	15
Texas	5	5	3,628,756	4,178,895	15
Washington	4	4	1,942,781	2,105,711	8
Other States*	29	31	28,453,720	33,508,233	18
	118	126	114,789,984	137,460,238	20

*Including Colorado, Georgia, Indiana, Kentucky, Maryland, Minnesota, Montana, Nebraska, New Jersey, Oklahoma, Oregon, Tennessee, Utah, Virginia and West Virginia.

St. Louis Asks Bids on \$1,200,000 Market.

St. Louis, Mo.—At a recent meeting of the St. Louis Board of Public Service, July 22 was set as the date for award of contract for the union market and public garage which will cost \$1,200,000 complete. Plans call for a three-story building, the two upper stories to be used as a garage. It is estimated that the cost of construction will be about \$850,000, while the market equipment will cost \$150,000. As the \$1,000,000 provided in a bond issue will only be sufficient to defray the cost of the market, it is planned to appropriate an additional \$200,000 to complete the garage.

Highway Delegates Inspect Steel Plants.

Newport, Ky., June 13.—The Pan-American Highway Commission, composed of delegates from Cuba, Mexico, Central America and South America, was entertained in this city yesterday by officials of the Newport Rolling Mill Co. and the Andrews Steel Co. In the official party also were representatives of the Highway Education Board, Washington, and other officials. After a dinner to the guests an inspection was made of the Andrews Steel plant, where the different processes of steel making were explained. The plant of the Newport Rolling Mill was also visited.

The commission is en route to Lexington, Ky., thence to Springfield, Ill., and other cities of the middle West.

Work Begun on \$2,000,000 Ford Plant at Norfolk.

Concerning the \$2,000,000 assembly plant at Norfolk, Va., contract for which has been awarded by the Ford Motor Co. of Detroit to the Rust Engineering Co. of Pittsburgh, Pa., the latter company wires the MANUFACTURERS RECORD that excavation has begun. The assembly building will be 800 by 300 feet, single story, 25 feet high; oil house 115 by 70 feet, one story, and power house, 70 by 65 feet, one story and basement.

All buildings will be of structural steel frame, with solid brick curtain walls, steel sash, precast roof with tile built in and limestone trim. Heating, plumbing and electrical work will be let separately. Plant equipment will be installed by the Ford Motor Co.

Blue Book of Southern Progress as Viewed by Leading Newspapers.

A Compact Cyclopedia of Facts.

[Dallas (Texas) Morning News.]

The similarity of climate, resources, crops, and hence of vocational pursuits, which extends from the South Atlantic seaboard to the tablelands of far west Texas, binds the Southern states in an economic and social homogeneity and impels them to consider their major problems in common. Or perhaps it would be better to say "would impel them," for the states of the South have a striking tendency to work independently, though present and past political and economic history would dictate a course of co-operation.

To make it a "solid South" other than at the polls has been the aspiration of certain outstanding men and institutions, than which possibly none has been more outstanding than Richard Hathaway Edmonds with his MANUFACTURERS RECORD. To increase interest in Southern resources and call attention to its commercial possibilities, the MANUFACTURERS RECORD has published annually for the last few years its "Blue Book of Southern Progress," a compact cyclopedia of facts relating to the states of the cotton belt.

The edition of 1924, copy of which has recently been received by the News, is even more complete than previous issues. Aside from the regular annual tabulations of crop productions, mineral output, manufactures, bank resources and transactions, building records and export and import trade, there are chapters bearing upon new phases of commercial and industrial development, including chemical resources, the present cotton situation, power resources and railroad expansion.

The Blue Book attempts little propaganda other than through facts, and some of these facts will be interesting to the average Southerner, who is accustomed to believe that the South's one really great resource is its cotton-growing soil. And, what is more significant, such facts will appeal to the progressive business enterprise throughout the nation. The South's resources in sulphur, asbestos, fuels, zinc, lead, commercial fertilizers, aluminum and other minerals are set forth in striking figures. The Blue Book's practical method of stimulation of interest in the resources of this great area is no doubt proving an invaluable aid to its development.

"Northerners as Well as Southerners Would Be Instructed by Reading It."

[Hartford (Conn.) Courant.]

The MANUFACTURERS RECORD of Baltimore has issued an attractive "Blue Book of Southern Progress," a copy of which has been received in this office. It gives a splendid digest of the material resources and the progress of the South. Richard H. Edmonds writes an Introduction in which he says that without some understanding of the character and energy of the people of the Old South prior to the Civil War, some knowledge of what that section of the country endured during the war and the eleven years of reconstruction which followed, it is impossible adequately to understand what has been accomplished since 1865, or to measure the potentialities of the future. He says that one often hears people of the present generation, taking their cue from the books and the newspapers and magazines of other sections, say that the people of the Old South were an easy-going non-progressive, pleasure-loving folk who knew little about science, or art, or industry, and had never made much achievement in these things. He believes it a lamentable fact that while in the educational institutions of the South the political power and statesmanship of the Old South is duly heralded, comparatively little attention is given to acquainting the students with the fact that the greatest

business leaders which the country had produced up to that time were the business men of the South prior to 1860. He adds:

"Equally as slack have been many of our teachers in training the rising generations since 1865 to understand the scientific and industrial achievements of the Old South and the progress of this section in literature. As a writer has written, the people of the Old South were so busy in making history that they left to others the writing of it."

Many articles in the book are of a nature that would prove Mr. Edmonds' claim. Northerners as well as Southerners would be instructed by reading it.

"If Abram S. Hewitt Had Gotten Red Mountain, Would There Be a Birmingham?"

[Birmingham (Ala.) News.]

From "The Blue Book of Southern Progress" for 1924, that exceedingly valuable annual publication issued by the MANUFACTURERS RECORD of Baltimore, is taken a paragraph of great interest to the people who now compose this great city and district:

Abram S. Hewitt, one of the foremost ironmasters of the country, and often called the first citizen of America, was so deeply impressed with the advantages of the South that in 1857 he secured an option on the Red Mountain district of Birmingham, intending to begin a great iron development there, but seeing the probability of a war he abandoned the undertaking. He never, however, lost his deep interest in the South, and was during his whole business career a large investor in Southern enterprises. Of the South he wrote:

"There is no corresponding region on this habitable globe which has so many advantages as the South, all available by natural or artificial connections, and capable of more economic operation than any other part of the country."

It was in the same spirit of enthusiasm, based on a study of the South, that Richard A. McCurdy, for many years president of the Mutual Life Insurance Company, New York wrote:

"The Southern people possess a region unsurpassed on earth in its natural resources. With the intelligence and energy which characterizes them, these resources ought, during the next generation, to experience a development which will place them among the foremost communities of the civilized world in wealth and happiness."

The Hewitt episode is not generally known. Suppose he had gone ahead with his plans? Inevitably there would have been a great manufacturing district here, but it is doubtful if its growth would have been as orderly and as steady in building a great city and manufacturing community. It most likely would have been a haphazard development, and instead of being the magnificent modern city existing here today, laid out and visioned as a great city, there would have been a hodge-podge growth.

Nor is it at all certain there would have resulted a city the growth and advancement of which has amazed the world. In addition to natural resources, there must be transportation; that is the vital link. Without it, and without the necessary rates, the mineral store is useless.

To the unfailing and unflagging and loyal interest of Milton H. Smith and the Louisville and Nashville Railroad is Birmingham greatly indebted for its growth past the period where there was uncertainty as to its future. In the main the other railroads have been fair and co-operative, but it should never be forgotten by Birmingham people the part that Milton H. Smith and his railroad played in our growth. Some one suggested once that a monument should be erected to Milton H. Smith and placed in Capitol Park. Why, all of Birmingham is, in a way, a monument to that great old railroad captain! And the prophetic words of R. A. McCurdy are being vindicated every day.

For Flood Protection in Lower Rio Grande Valley— Work in Hidalgo County to Cost \$1,600,000.

Mercedes, Tex., June 21.—[Special.]—For preventing overflow of the lower Rio Grande Valley in time of flood, plans have been adopted for construction of a levee system and floodway to divert excess water into the Arroyo Colorado, which empties into the Gulf of Mexico about 50 miles north of the Rio Grande. Construction proposed contemplates a floodway to handle approximately 120,000 second feet, leaving 50,000 second feet through the river channel to provide protection for floods of 170,000 second feet or less. The plan provides for a floodway extending from Mission to Mercedes, 40 miles, and construction of several sections of levee.

Two inlets from the Rio Grande are provided—one at the Mission flume, where 30,000 second feet would be admitted, and one through the Granjeno basin, south of McAllen, which would provide for 90,000 second feet.

The floodway at some points would be more than a mile in width, narrowing down to approximately 2500 feet at some points.

Through Cameron county, alternate routes for the floodway are available, but no definite specifications have been drawn.

The cost of the work in Hidalgo county, according to a report of Charles F. Williams, Federal reclamation engineer, and W. G. Shaw, engineer at Mercedes, would be approximately \$1,600,000, and Hidalgo county now has voted a bond issue of \$1,620,000 for flood control. The issue will be for 20 years at 6 per cent. The project will require 22,400 acres for right of way, part of which already belongs to irrigation companies interested.

The levee on the south side of the floodway will be continuous from Mission to the head of the Arroyo Colorado, but on the north side the natural bench, supplemented by a low levee, will be sufficient. Much levee work along the Arroyo Colorado will be necessary to carry a large volume of water through this channel.

Union Miners Deprive Themselves of Work.

Charleston, W. Va., June 23.—[Special.]—Recent action of the international executive board of the United Mine Workers of America at Indianapolis in suspending the autonomy of District 17, covering northern and southern West Virginia high volatile territory, marks a crisis in the affairs of the union in the district mentioned, even though the action of the international board was taken at the instance of district and sub-district officials. The fact that policies of the international union have not been applied and enforced with sufficient vigor in the district is assigned as the reason for placing the affairs of the district in the hands of representatives of the international headquarters.

Insistence of the union upon a higher wage scale than market conditions justified, as stipulated in the Jacksonville agreement, is regarded as having been an important factor in bringing about a crisis in the affairs of district 17, since it has deprived many union miners of an opportunity to work, owing to the fact that a great many operators have not been able to pay the wages demanded. The situation now prevailing in District 17 is not unlike that which existed for a time in District 29, embracing the New River field. Miners gradually deserted the District 29 organization after requesting the operators to allow them to return to work under a scale lower than that fixed by the union prevailing, and about two years ago District 29 was dissolved. Of course, District 17 has been up until the present a good deal larger and a good deal stronger than District 29 ever was.

The miners of southern West Virginia who are working on a reduced wage scale, in open shop mines, are understood to be a good deal better off under existing market conditions

than the union miner. They are earning much more and have no part of their wages to turn over to the union, so that the real menace to the coal miner and to the industry is not the operator who has refused to be governed by the exigencies of the present market and the law of supply and demand, but the miners' union, which will not permit the union miner to work except upon an artificially high wage scale which precludes many operators from running their mines at all, and therefore prevents union miners from earning anything at all in many instances.

Iron Mining Methods in Alabama.

A detailed study of conditions affecting mine support and mine subsidence in the red iron ore mining district of Alabama is being made by Interior Department engineers attached to the Southern Experiment Station of the Bureau of Mines, Birmingham-Tuscaloosa, Alabama. The work includes a study of strength of ore and top-rock, failure of pillars and general conditions affecting mine support. The failure of top-rock has been given special attention, together with the determination of angle of break, both of these matters being closely connected with the problem of mine subsidence. Some 300 separate observations on angle of break have been made both on the surface and underground.

In connection with the proposed tests on crushing strength and deformation under pressure, 125 iron ore samples, cut into cubes and columns, have been sawed by diamond and carborundum saws and rubbed to bone finish. Samples of top-rock, rough ore and draw-slate have been collected and some 50 bars have been cut for binding strength tests. Crushing tests will be conducted at the Bureau of Standards, Washington, while bending strength tests will be made at the Carnegie Institute of Technology, Pittsburgh.

Promoting \$2,000,000 Irrigation Dam Project.

Brownwood, Tex., June 21.—[Special.]—An irrigation and hydro-electric project which will involve the construction of a \$2,000,000 dam at Narrows, below the confluence of Pecan Bayou and Jim Ned Creek, is being promoted here. Preliminary surveys have been made and it is stated that sufficient water could be stored to irrigate 30,000 acres of valley land. It is proposed to create an irrigation district and issue bonds, based on the value of the land to be irrigated. The Brownwood Chamber of Commerce is back of the project.

May Build \$2,000,000 Paper Mill.

Reports from Covington, Va., state that the Hollingsworth & Vose Co., Inc., Boston, Mass., has purchased a farm near Covington of 324 acres, on which it will build a big paper mill, expending between \$1,500,000 and \$2,000,000 for the construction of the first unit, which would employ several hundred workmen. It is said that plans may be made later for enlarging the plant. With reference to the enterprise, the company wires the MANUFACTURERS RECORD: "We have formulated no plans for building."

Power Company Will Acquire Site.

San Antonio, Tex., June 21.—[Special.]—The Comal Power Co. has been incorporated here with a nominal capital stock of \$1000 for the purpose of acquiring a hydro-electric power site on the Guadalupe River near New Braunfels. It is stated that the company is a subsidiary of the San Antonio Public Service Co. W. B. Tuttle of San Antonio, president of the San Antonio Public Service Co., is president of the new company.

Some Phases of Industry: No Limit to World Expansion of Activities.

By RICHARD W. EDMONDS.

In a paper presented recently before the Virginia section of American Engineers, Wm. J. Hammerstrom, chief engineer of the Lynchburg Foundry Company, discussed several important phases of American industry.

"Efficient management," said Mr. Hammerstrom, "is a phrase used extensively in modern industry and owes its origin perhaps to the well-known 'efficiency man.' Management to be worthy of its name must be efficient or it is mismanagement."

Efficient management is, of course, a purely relative term, the efficient management of the early days of an industry being found fatally inefficient as the industry becomes more highly organized and more intensely competitive; and, as Mr. Hammerstrom points out, "the butcher, the baker, the candlestick maker" as eligibles for executive positions are eliminated and highly-trained specialists take their places. For the demands of modern industry are too exacting to be satisfied with a loose, general knowledge and the rough-and-tumble methods of native but untrained ability.

Drawing a distinction between our industrial system and our public utilities, mining, lumbering, banking and other business fields, we have in this country alone, says Mr. Hammerstrom, an industrial system estimated to consist of about 300,000 establishments, employing between ten and fifteen million people. Since our whole social organization, down to the very fundamentals of our civilization, depends on the successful operation of all our intricately interwoven economic structure, of which the industrial system is so large and vital a part, it may be said that the welfare of civilization depends among other equally essential supports, upon the smooth functioning of our industrial system. With this fact clearly understood, the importance to every phase of civilized life of successful industrial management becomes apparent.

But it is easily possible to exaggerate the importance of efficient industrial management. Says Mr. Hammerstrom:

"The truly great nations of the world are those which are great industrially, and the future supremacy of America depends to a great extent on how well organized and managed our industries are."

The first clause of the above sentence is, of course, not correct, and Mr. Hammerstrom, in the first part of the paragraph from which the quotation is taken, inadvertently illustrates the fallacy.

"Germany, before the war, was a great people industrially," he says; and I believe it is pretty generally considered that Germany had carried industrial efficiency to a higher pitch than any other nation on earth. But Germany overlooked the greatest factor in the true greatness of a nation, just as did Mr. Hammerstrom, for it had become to a great degree an atheistic nation, ignoring the far higher spiritual development in favor of the purely intellectual and thus prepared the way for her downfall. He added:

"With the development of the large-scale industries, so common in America today, many new conditions have sprung up unknown to the industry of former years. The question, however, of labor is one which has remained with the industry through all its stages of development. The common meeting ground to settle the many disputes between capital and labor is yet to be found, although much time has been spent and many sincere efforts made to solve this apparently most difficult problem. Progress has been made, however, towards a better understanding with a mutual respect for human nature, based on a recognition of the fact that no individual or group of individuals is self-sufficient, but each has need of the other."

It is probably true that in this field progress has been

made, yet the gross progress is to such a great extent offset by serious retrogressive and destructive tendencies that the net progress is pitifully small by comparison with the great amount of thought and suffering that have gone into the problem. A more reasonable and just attitude has been reached in regard to the rights of labor and the responsibilities of the employer, and reasonable working hours have been agreed upon in most industries. But opposed to these progressive tendencies is the destructive communistic idea that the laborer should be paid "a living wage," or, in other words, should be paid in proportion to his needs rather than in proportion to his producing capacity; and since his needs are determined chiefly by his and his wife's ability to produce offspring, the amount he takes out of the economic bag bears no relation whatever to the amount he puts in.

It is surprising what a variety of aspects this idea presents to different people. To some whose hearts are greater than their brains it wears a benevolent appearance and the attractive expression of "advanced thought." To others, whose greed for immediate gain far outruns their capacity for logical thought, it appears as the Utopian substitute for hard work. To a third class it is just plain robbery, while to a fourth it appears simply another of those futile, childish attempts to suspend the inexorable operation of the law of supply and demand.

Speaking of standardization, that fruitful aid to industrial efficiency, Mr. Hammerstrom said: "In common with other industrial factors, it has faults and virtues, and the task of segregating the bad points from the good ones is not a little undertaking."

Standardization enthusiasts, with their imaginations inflamed by enthusiasm for a practice that has such great and obvious advantages, are inclined to take the bit in their teeth and run headlong through the bounds of reason, thus injuring alike the cause and the public interests. But the great need for standardization wisely applied, in order that the units of an industry may compete honestly with each other through putting on the market a product that, the buyer may safely assume, embodies the certain, agreed-upon, fundamental requisites that go to make up the product its name proclaims it, is unquestionable, and is well illustrated by an instance recently related by Secretary of Commerce Herbert Hoover in speaking of the efforts of the Department of Commerce to standardize the lumber industry. He said:

"In the toil of formulating these standards there arose a question of how thick a one-inch board should be. It sounds easy. But it quickly developed to be a question whether it should be one inch thick when it was green, after it was dried, when planed on one side, or when planed on both sides. It developed not only that a choice had to be made among these four alternatives, but also that this choice had to be based upon a proper consideration for the conservation of our forests, on one hand, and the provision of a material of such structural character as to constitute a square deal to the consumer, on the other. It also developed that there were 32 different thicknesses of a one-inch board in current use, and that some minority of manufacturers in the drive of unfair competition were gradually thinning the board until it threatened to become paper."

Says Mr. Hammerstrom: "The strongest economic and profit-making reason for standardization of products are: (1) lower labor cost; (2) interchangeability of parts; (3) low capital investment; (4) less idle equipment; (5) prompt and speedy delivery through stock."

While these may be the strongest profit-making reasons, I

believe Mr. Hammerstrom will agree that not the least of the reasons under an all-inclusive heading is the granting of a square deal to the consumer.

Speaking finally of the great and unceasing expansion that has been and is in progress in industry, Mr. Hammerstrom asks, "How long can these expansions continue and what will be the breaking point?" And he expresses the belief that if there is a limit, and if there is to be a breaking point, at least it is very far in the future.

Surely the man is not yet born who will see the industries of the world developed to such a point that the world will be oversupplied. Markets are being expanded, and will continue to expand, in two ways, and to neither has any limit yet been found. First, the per capita consumption of most staples such as iron and steel is steadily increasing in this and other countries. Second, new markets are being found and developed in countries far below the level of the world's average economic development, and as these backward countries come forward their needs will approach our own. Thus the demand grows apace, and our industries can safely continue to multiply their productivity beyond the range of human vision.

264 Flaxhill Road,

South Norwalk, Conn.

Asks Authority to Issue \$3,000,000 of Bonds— Georgia Railway & Power Co. Carrying Out \$18,000,000 Development Program.

Atlanta, Ga.—Authority has been requested of the Public Service Commission by the Georgia Railway & Power Co. to issue \$3,000,000 of bonds, proceeds of which will be used for the development of water-power facilities in the vicinity of Tugalo, Tallulah and Burton dams. The proposed issue will cover a portion of the construction work planned for the last six months of this year, and is a step in the company's plans for financing its \$18,000,000 development program begun early in 1923 and expected to be completed by the end of 1926.

Projects recently completed include substations at Toccoa, Commerce, Winder, Marietta, East Point and Cornelia, together with numerous enlargements of service, such as transmission lines from Tallulah to Tugalo, to Toccoa, to Commerce, to Winder, to Norcross and to Marietta, beside the Lindale-Summerville high-tension line. Two steam plants at Atlanta and water-power plants at Morgan Falls and Bull Sluice have also been modernized.

Work is in progress on transformer stations at Summerville, Lafayette, Chickamauga, Dalton, Roswell, Flowery Branch and a network of transmission and distribution lines, in addition to dams and power plants under construction.

The program now under way provides for the full development of the Tallulah and Tugalo Rivers, it is stated, and upon its completion will mean that waters of these rivers will be utilized six times in the generation of power, developing a 1200-foot fall to a maximum capacity. At the head of the river the Burton power plant will be built at Burton dam, while six miles below the Nacoochee dam and power plant will be built, construction to begin in 1925. Below this will be Lakemont Lake to feed water into a one-mile tunnel ending at the Toccoa power plant at the head of Tallulah Lake, a development to be finished about the last of this year. In succession will come the Tallulah power plant, Tugalo dam and power plant recently completed, and the Yonah dam and power plant begun this year.

As outlined in the MANUFACTURERS RECORD early last year, completion of the entire program of the Georgia Railway & Power Co. will increase its deliverable output from 272,000,000 to 650,000,000 kilowatt hours per year.

Tallahassee to Hold Legislative Council Centennial.

North Florida Chamber of Commerce.

Tallahassee, Fla., June 20.

Editor Manufacturers Record:

Tallahassee, "The Hill City of Florida," is preparing to celebrate the centennial of the first Legislative Council meeting during the week of November 9-13, 1924. Local organizations are co-operating to make an interesting program, which will include pageants, entertainments at the Florida State College for Women, the Leon County Fair, athletic contests, concerts, a historical costume ball and other features.

On Armistice Day the American Legion will have charge of the parade program, which will include prizes for the best historical floats. On the site of the original Capitol building, where the Legislative Council met, a reproduction of the log Capitol will be erected and be used as an information booth. There are several interesting natural wonders and historical places in and near Tallahassee and excursions will be arranged so visitors can see them.

F. R. S. PHILLIPS, Secretary.

Award Contract for \$700,000 Finishing Plant.

The Champion Fibre Co., Canton, N. C., has closed a contract with the Aberthaw Construction Co. of Boston and Atlanta for an addition to its big paper mill. The work calls for the erection of a finishing plant of reinforced concrete, two stories and basement, with brick curtain walls. The building will be approximately 130 by 200 feet, and is estimated to cost \$700,000. H. S. Taylor of Dayton, Ohio, is the architect.

Practically all building material has been purchased, as well as machinery, and it is expected to have this unit ready for operation by October 1. It will provide facilities for finishing 100 tons daily output of fine bond, book and Kraft papers made on a machine now operating, with a second machine to be installed in this building.

As detailed in the MANUFACTURERS RECORD several weeks ago, the Champion Coated Paper Co. of Hamilton, Ohio, has acquired control of the Champion Fibre Co., which employs about 1200 workmen.

Salem Glass Company to Resume.

Salem, W. Va., June 6—[Special.]—The delivery of two Miller press and plow machines at the plant of the Salem Flint Glass Co. here promises an early resumption of operations at this plant, which has been shut down for several months. Originally the company manufactured lamp chimneys, but in the future will manufacture tumblers, salt and pepper shakers, glass dishes, cigar holders and ash receptacles, as well as other novelties. From 35 to 40 people will be employed.

"Domestic" Exhibit at Good Roads Show.

In the official list of exhibitors at the North Carolina Good Roads Show as published recently in the MANUFACTURERS RECORD the name of the Domestic Engine & Pump Co. of Shippensburg, Pa., should have been included. It was omitted by mistake. The company writes that their exhibit included the following equipment: "Portable Air Compressor Units and Triplex High Pressure Force Pump Unit with four cylinder engine." Through their Greensboro distributor, E. F. Craven, they showed a "Domestic High Pressure Triplex Pump Unit with four cylinder power plant, a Double Diaphragm Pump Unit, and a Single Diaphragm Pump Unit," also other equipment. We are glad to publish this supplementary information.

An American Engineer's Experience in Europe.

A STRIKING CONTRAST BETWEEN THE FRENCH PEOPLE AND THE GERMAN INDUSTRIALISTS WHO ARE ROBBING THEIR OWN PEOPLE TO MAKE READY FOR ANOTHER WAR TO CONQUER THE WORLD.

By H. M. LANE, President of The H. M. Lane Company, Industrial Engineers, Detroit.

From personal observation in six months in Europe last year, rearranging industrial plants and introducing American methods, and also in reporting on a number of French plants as to their ability to do certain work, it is an interesting thing to notice the underlying condition in which the French people live. They are essentially a happy people, a people who do not believe in whining or crying and a people thoroughly content to live within their own borders and be as self-supporting as possible.

Few Americans realize that France is the nearest to a self-supporting nation in Europe. It produces about 90 per cent of wheat and by far a greater portion of its foodstuffs. The French do not care to build up an export trade in heavy iron and steel products, but only want to export those things in which a certain amount of human labor enter, as, for instance, the higher grade dress goods, ribbons, laces, art goods, high-class chinaware and dishes and other similar products.

The French people have another interesting characteristic, and that is that any people who go to live with them, such as those who intermarry, are quickly absorbed, and this is particularly true of Italian or Spanish immigration. Against this, one must place the fact that thirty-odd times in 2400 years this land has been invaded by tribes from the east and the northeast and they have had to fight themselves free. During the same period, the territory to the east and northeast has been invaded by the French five times.

Bismarck said many years ago that war paid better than commerce, and for over 50 years the German people have been educated to this belief, and this form of education has made possible the thing that has taken place. In the first place, the Germans invaded France and their people were given to believe that they had to do it; that if they did not do it, France would come and conquer them. One might say much about the factors previous to the war, but present factors are now the topic.

With the collapse of the German Army and the retreat and exile of the Emperor, within a period in which a few industrialists have gained control and to a large extent replaced the reign of the emperor, in this case it is well to call attention to one thing: The King of England rules, but does not reign; the Emperor of Germany both ruled and reigned, and the German people had been used to endless limitations and careful supervision of their movements.

These industrialists took over the situation to their own benefit. Germany is busy from one end to the other. The factories are all running, the people are working long hours, but they are not working for their own country or for themselves, as is the case of the French people. They are working for personal aggrandizement of less than one hundred Germans. One can go into any store in this country, and particularly the five and ten cent stores, and find the shelves loaded with German goods. How do they get there? Some German comes over here and sells, say, \$100,000 worth of goods and goes home to manufacture them, but before they are manufactured, by manipulation the mark is driven down to such a point that in place of the 20 to 25 per cent profit there is on the order, when delivered to the foreign market,

approximately 100 per cent profit. They only take to Germany sufficient foreign funds to care for raw material and labor in a depreciated currency and the balance of the money is deposited in foreign countries.

The Germans learned a lesson in the war and are exceedingly careful how they now deposit this money, but there are huge sums, running into billions of dollars, being held outside Germany, which has been made by this favored few. In the meantime, by manipulating the mark down, they have created in Germany famine conditions which they have played as a card to get sympathy in foreign nations. The only industries in the world which have not been heavily taxed by their own Governments to pay the debts of the war are the German industries. The German war was almost wholly financed in Germany on a mark basis, and depreciation of the mark has wiped out this debt. The Germans complained of the 35 per cent French tax on coal in the Ruhr, claiming that it made it possible for them to export steel and yet there are coming to this country thousands of tons of German steel, fabricated into knives, electric flatirons and a thousand and one similar articles, which are being sold at a very small per cent of our cost of manufacture.

There has never been as gigantic piece of deceit foisted on the world as that which is now being given out in Germany. The deliberate breaking down of the currency to avoid home payment and the creating of internal distress to avoid foreign payment, when taken into consideration with the accumulation of the absolutely unheard-of fortunes on the part of a favored few, presents a situation that the world has never seen before. German money is being used in many countries freely to obtain certain political ends, and those who are at the head plan, in the first place, never to pay any debts they owe resulting from the war, and, in the second place, to break down foreign commerce by underselling it in their markets, as they now are doing.

On the French side of the border there is a very different situation. The French have worked unheard-of hours, rebuilding first their industries, second their transportation needs, and third their houses, but they have tried not to let their medium of exchange, the franc, depreciate too much. The main depreciation that has occurred has been through German manipulation and through the fear that reparations will not be paid. In the early '70s the French paid their debt promptly and have always paid similar debts promptly, while the Germans are planning to repudiate and cripple. The German steamship companies were able to pay off their heavy bonded indebtedness for a song with the depreciated mark, and they have now built the beginning of a great fleet at a price per ton of carrying capacity which is a mere fraction of that that has cost any other nation to build their boats, and hence they will be in position to underbid all others in ocean-carrying fleets. One could go on and detail many other points in this carefully worked out plan for the war after the war, but will only call attention to one or two things which may prove serious obstacles to their plans:

In the first place, it seems that the commercialists are going too far with the patience of the German people, and in spite of the fact that they have had 50 years of careful education in obeying, there are decided signs of a break. Burglary and theft were almost unknown in Germany previous to the war, but today they are much more common than in this country. One of the directors of a large German

concern said recently that his house had been burglarized three times in six months, and this was not an unusual record. Red propaganda is edging its way through the underlying elements of the German nation and the world may witness a blow-up which would very seriously affect Germany and very seriously affect the rest of the world.

An interesting fact noted by all tourists in southern Italy and other parts of Europe this winter was that the places usually taken by the spendthrift Americans in the expensive hotels, etc., was now taken by the newly-rich Germans and that they were spending money more recklessly than any other type of foreigners.

An engineer who was educated in Germany was able to go back there and the Germans did not know that he had ever been in England or the United States, as he is of Norse extraction. They talked to him more freely than they would to those on this side, and also persons of Swiss or Russian origin were able to get the real attitude of the Germans, and the universal thought is that the next twenty-five years the Germans expect to conquer Belgium and France, later England, and that they then expect to settle their score with the United States, so that America will be out of their way in South America or anywhere else; in other words, they fully expect to rule the world in the next 50 years, and in the meanwhile they do not expect to pay anything if they can help it. There is an enormous amount of propaganda coming from Germany, and the deplorable fact is that the people sending it out believe every word that they are saying and have absolutely no idea that they are victims of a deliberate plan.

German factories and materials were not destroyed and earning power was not reduced any more than that of the two other principal contestants in the war. As far as raw materials and man power is concerned, Germany is in better position than either England or France to pay, but the few controlling the situation are carrying out a deliberate plot in an attempt to win, in another way, what they failed to do on the battlefield.

New Development for Severn River.

Discussing its plans for the development of Severn River property near Annapolis, Md., the Herald Harbor Co., Edward S. Hine, director of sales, Washington, D. C., states that beaches are being cleaned and bathhouses erected. A new road is being built by Anne Arundel county and the State Roads Commission. Sixty bungalows and cottages have already been ordered and 140 others are in prospect.

Arrangements have been made for the erection of a tea room, restaurant, hardware store, gas station, house-furnishing store, general merchandise store, all in the business section of the development. Negotiations are also under way for a hotel and moving-picture house. A number of houses are being erected by Lewis Homes Co. and the Meredith Lumber Co. of Annapolis, while much of the work is being handled directly by the Herald Harbor Co. It is at present constructing a baseball park and tennis court, and plans to construct dock, pier, dance hall and public garage.

Modern Sanitarium at Nokomis.

Nokomis, Fla.—It is announced here that Dr. Fred M. Albee, surgeon of New York city, plans to take up his permanent residence at Nokomis, a town in which every house is of stucco and built after plans approved by Dr. Albee's architects. He has added to his holdings in this vicinity, bringing his total acreage to 2500. His plans are said to involve the erection of a modern sanitarium here for the accommodation of winter patients and at which his operations during the winter will be performed.

\$2,500,000 Addition to Hotel at St. Louis.

The Hotel Jefferson Co., St. Louis Mo., of which Lyman T. Hay is president, is having plans prepared by the T. P. Barnett Co. of St. Louis for a \$2,500,000 addition to Hotel



HOTEL JEFFERSON, ST. LOUIS, AS IT WILL APPEAR WHEN ADDITION IS COMPLETED.

Jefferson at 12th, Locust and St. Charles streets. The addition will be 102 by 150 feet, 13 stories, of reinforced concrete construction, with concrete foundations and floors. It will contain 405 rooms. Date of awarding construction contract has not been determined.

Clay Products Company Completes Plant.

The Owensboro Clay Products Co., Owensboro, Ky., advises the MANUFACTURERS RECORD that it has completed construction of its new plant, which is designed for 12 kilns and may be brought to capacity by the addition of kilns on the original plans and the installation of another dryer.

J. M. Cutshall & Son of Brazil, Ind., are general contractors for the building, while machinery was purchased from E. M. Freese & Co. of Gallion, Ohio, and the Manufacturers' Equipment Co. of Dayton, Ohio. Dryer cars were purchased from the Chase Foundry & Machinery Co. of Columbus, Ohio; fire brick from the Louisville Fire Brick Co., Louisville, Ky., and common brick from the West Point Brick Co., West Point, Ky.

South Carolina Power Plant.

Columbia, S. C.—At a recent meeting in this city of the Columbia Canal Commission, of which Senator T. B. Butler of Gaffney is chairman, definite steps were taken for the construction of a hydro-electric power plant to develop 500 horsepower reserved to the state in the act of 1887. A power house will be erected on the west bank of the canal, the commission having requested engineers to submit estimates at its next meeting on June 17. It is thought that the development will cost \$75,000 or less, and that the plant, when completed, will be of sufficient capacity to furnish light and power for all state institutions.

To Develop South Richmond Tract.

Richmond, Va.—Plans for the development of a large tract of land in South Richmond, involving the construction of roads and streets, installation of water, sewers and lights and the erection of a number of dwellings, are being considered by John T. Wilson of this city. Under a proposed agreement with the city, Mr. Wilson will grade, gravel and otherwise improve streets, build homes and dedicate the streets and alleys to the city. The city will be required to provide sewers, water and gas as the territory develops.

Portland and Other Cement Production and Shipments in 1923.

The Department of the Interior issues the following statistics of the cement industry compiled under supervision of Ernest F. Burchard of the Geological Survey. The figures include slight revisions made since the publication of preliminary estimates released April 10.

The quantity of Portland cement produced in 1923 was 137,460,238 barrels, which was about 20 per cent greater than in 1922 and was the greatest quantity produced in any year. Shipments from mills likewise made a high record, showing

an increase of 15 per cent over those of 1922. Stocks at the mills also increased, reaching a total of 10,900,370 barrels on December 31. The average factory price per barrel in bulk in 1923 was \$1.90, an increase of 14 cents or 8 per cent as compared with 1922. The capacity of the existing mills was estimated at the end of 1923 as 161,858,000 barrels annually. This figure includes the output of 8 new mills completed during 1923.

The output of hydraulic cement, other than Portland, name-

PORTLAND CEMENT PRODUCED, SHIPPED AND IN STOCK, 1922 AND 1923, BY DISTRICTS.

Commercial District	Active plants		Production Barrels		Stock Barrels	
	1922	1923	1922	1923	1922 (revised)	1923
Eastern Pennsylvania, New Jersey and Maryland.....	22	22	31,195,617	35,721,751	2,295,324	1,883,112
New York	9	9	5,922,706	6,990,174	516,151	653,263
Ohio, Western Pennsylvania and West Virginia.....	10	11	10,753,301	13,495,799	776,261	1,060,680
Michigan	12	14	6,243,805	7,619,792	630,383	783,892
Illinois, Indiana and Kentucky.....	10	10	17,998,914	21,193,666	1,434,407	1,571,159
Virginia, Tennessee, Alabama and Georgia.....	8	11	5,954,043	7,908,846	169,597	457,593
Eastern Missouri, Iowa and Minnesota.....	9	10	11,392,552	14,037,099	1,516,568	1,929,494
Western Missouri, Nebraska, Kansas and Oklahoma.....	11	11	8,025,720	9,779,034	956,887	1,162,918
Texas	5	5	3,628,756	4,178,895	190,762	278,373
Colorado and Utah.....	5	5	2,020,784	2,427,971	202,608	290,193
California	9	9	8,711,515	11,001,910	292,486	411,594
Oregon, Washington and Montana.....	8	9	2,942,271	3,105,301	370,816	418,099
	118	126	114,789,984	137,460,238	9,352,250	10,900,370

SHIPMENTS OF DOMESTIC CEMENT FROM MILLS INTO STATES AND PER CAPITA, 1922 AND 1923.

State	Population (estimated as of Jan. 1, 1923), a	1922 Shipments to States (barrels)		1923 Shipments to States (barrels)	
		Total	Per capita	Total	Per capita
Alabama	2,413,092	998,009	0.41	1,489,531	8.61
Arizona b	374,274	633,999	1.69	485,544	1.25
Arkansas b	1,807,132	498,075	.28	848,509	.46
California	3,751,111	8,356,362	2.23	10,373,163	2.69
Colorado	983,078	1,093,026	1.11	1,106,920	1.11
Connecticut b	1,462,790	1,262,018	.86	1,441,271	.97
Delaware b	229,394	353,201	1.54	404,986	1.75
District of Columbia b	437,571	601,865	1.51	756,723	1.57
Florida b	1,035,170	924,112	.89	1,299,746	1.23
Georgia	2,984,429	1,084,395	.36	1,424,552	.47
Idaho b	464,705	257,253	.55	291,029	.61
Illinois	6,746,917	9,667,741	1.43	12,237,478	1.79
Indiana	3,001,314	3,894,909	1.30	5,010,588	1.66
Iowa	2,459,411	3,246,436	1.32	3,624,857	1.46
Kansas	1,793,456	2,692,345	1.50	2,613,070	1.45
Kentucky	2,455,790	1,163,279	.47	1,566,682	.63
Louisiana b	1,842,427	906,467	.49	1,028,520	.55
Maine b	775,938	461,749	.60	510,339	.66
Maryland	1,497,347	1,547,304	1.03	1,827,684	1.21
Massachusetts b	4,002,518	3,045,511	.76	3,124,238	.77
Michigan	3,933,619	6,196,586	1.58	7,531,664	1.87
Minnesota	2,483,357	3,555,842	1.43	3,414,916	1.36
Mississippi b	1,790,618	422,591	.24	457,907	.26
Missouri	3,438,268	3,017,859	.88	3,492,453	1.01
Montana	602,298	265,294	.44	280,682	.45
Nebraska	1,328,557	1,606,062	1.21	1,497,040	1.12
Nevada b	77,407	91,646	1.18	92,760	1.20
New Hampshire b	446,948	365,210	.82	359,574	.80
New Jersey	3,347,097	5,116,282	1.53	5,400,703	1.46
New Mexico b	370,563	269,351	.73	222,482	.59
New York	10,778,171	13,272,157	1.23	15,881,436	1.46
North Carolina b	2,668,153	2,284,502	.86	3,108,367	1.15
North Dakota b	668,446	284,422	.43	302,734	.45
Ohio	6,066,019	7,770,331	1.28	8,843,641	1.43
Oklahoma	2,142,966	2,023,392	.94	2,120,313	.97
Oregon	817,572	943,819	1.15	956,320	1.15
Pennsylvania	9,045,997	10,457,809	1.16	11,281,290	1.23
Rhode Island b	623,490	453,950	.73	509,584	.81
South Carolina b	1,735,739	628,952	.36	626,912	.36
South Dakota b	652,820	507,084	.78	564,807	.86
Tennessee	2,385,193	939,174	.39	1,267,245	.53
Texas	4,900,145	2,892,922	.59	3,328,619	.67
Utah	472,895	450,460	.95	476,186	.99
Vermont b	352,428	213,255	.61	234,182	.66
Virginia	2,385,690	1,432,326	.60	1,742,200	.72
Washington	1,422,945	1,750,811	1.23	1,926,019	1.33
West Virginia	1,538,662	1,478,476	.96	1,817,112	1.16
Wisconsin b	2,724,215	4,584,298	1.68	5,064,404	1.84
Wyoming b	209,369	228,265	1.09	348,805	1.63
Unspecified		55,813	....	87,516	....
	e109,955,947	116,306,997	1.06	134,703,313	1.21
Exports reported by manufacturers, but not included above d.....		1,394,219	....	1,208,805	....
Total shipped from cement plants.....		117,701,216	....	135,912,118	....

a Bureau of the Census. b Non-cement-producing State. c Population January 1, 1920. d Includes shipments to Alaska, Hawaii and Porto Rico. e Total for continental United States.

ly. masonry, natural, and puzzolan cements, showed an increase of 43 per cent in 1923 over 1922. The total shipments from the 10 operating plants was 1,271,674 barrels valued in bulk at the mills at \$1,947,352.

PORTLAND CEMENT SHIPPED, 1922 AND 1923, BY DISTRICTS.

District	Shipments		Average	
	1922	1923	factory price	per barrel
Commercial District	Barrels	Barrels	1922	1923
Eastern Pa., N. J. and Md.	31,897,649	36,133,963	\$1.63	\$1.81
New York	6,194,663	6,853,062	1.73	1.87
Ohio, Western Pa. and W. Va.	11,040,908	13,211,380	1.68	1.83
Michigan	6,349,751	7,466,283	1.76	1.88
Illinois, Indiana & Kentucky	18,676,656	21,056,914	1.61	1.76
Va., Tenn., Ala. and Ga.	6,158,652	7,620,850	1.76	1.86
Eastern Mo., Iowa and Minn.	11,657,484	13,624,173	1.68	1.84
West. Mo., Neb., Kans. & Okla.	7,967,266	9,573,003	1.83	1.90
Texas	3,730,477	4,091,284	2.01	1.96
Colorado and Utah	2,063,500	2,340,386	2.23	2.21
California	9,041,788	10,882,802	2.26	2.39
Oregon, Wash. and Montana	2,922,422	3,058,018	2.42	2.44
	117,701,216	135,912,118	1.76	1.90

PORTLAND CEMENT MANUFACTURING CAPACITY BY COMMERCIAL DISTRICTS, 1922 AND 1923.

District	Estimated capacity	
	1922	1923
Eastern Pa., N. J. and Md.	41,921,000	42,195,000
New York	8,567,000	8,306,000
Ohio, Western Pa. and W. Va.	12,133,000	15,090,000
Michigan	7,930,000	9,346,000
Illinois, Indiana and Kentucky	21,550,000	22,296,000
Virginia, Tennessee, Alabama and Georgia	7,113,000	10,719,000
Eastern Missouri, Iowa and Minnesota	14,177,000	16,580,000
Western Mo., Neb., Kans. and Okla.	10,215,000	11,795,000
Texas	4,425,000	4,642,000
Colorado and Utah	2,850,000	3,025,000
California	10,464,000	12,594,000
Oregon, Washington and Montana	4,858,000	5,270,000
	146,203,000	161,858,000

Increased Cotton Acreage in Lower Rio Grande Valley.

Harlingen, Texas, June 23.—[Special.]—Notwithstanding the fact that it was in the lower Rio Grande Valley that the cotton boll weevil entered the United States from Mexico, many years ago, the growing of the staple in this region is being done on a more extensive scale this year than ever before. The area planted to cotton is about 200,000 acres, which is an increase of approximately 40,000 acres over last year.

In order to care for the prospective crop, fourteen additional gins have just been built or are under construction in the different towns of the Valley. These new gins will bring the total number in the Valley up to 58.

It is stated that the cotton plants show a considerable infestation of boll weevils, but that a large yield of cotton should be obtained despite the pest. Besides the cotton that is grown in the lower Rio Grande Valley by means of irrigation, a large acreage of dry-land cotton is planted in the adjacent territory this season. Up to this time the rainfall has been timely and abundant, and the non-irrigated crop gives promise of larger yield.

Will Build \$500,000 Transmission Line.

Birmingham, Ala.—In line with the announcement in the MANUFACTURERS RECORD last week that the Alabama Power Co. would expend \$119,000,000 in the next twelve or fifteen years for the development of hydro-electric operations in Alabama comes the statement that construction will begin at once on a 44,000-volt transmission line from Hapgood to Decatur to cost \$500,000. Permission for the construction of this line has been granted the Alabama Power Co. by the Alabama Public Service Commission, and it is stated that surveys have been made and material is on the ground.

The completion of this line will link the Gorgas transmission line, recently purchased by the Alabama Power Co., and the line supplying electricity to Huntsville. A transformer station will be erected at Hapgood on the Gorgas line, it is said, which will serve the main distribution line to Decatur, one to Cherokee and one to Russellville.

PORTLAND CEMENT PRODUCED AND SHIPPED, 1922 AND 1923, BY STATES.

State	Shipments		Average	
	1922	1923	factory price	per barrel
Alabama	2,324,116	3,395,392	\$1.78	\$1.84
California	9,041,788	10,882,802	2.26	2.39
Illinois	6,554,945	7,129,208	1.61	1.76
Iowa	4,475,074	5,570,675	1.72	1.86
Kansas	4,556,517	5,878,839	1.79	1.85
Michigan	6,349,751	7,466,283	1.76	1.88
Missouri	6,239,144	7,143,883	1.68	1.85
New York	6,194,663	6,853,062	1.73	1.87
Ohio	2,913,034	4,003,321	1.80	1.90
Pennsylvania	34,023,695	38,610,852	1.63	1.81
Texas	3,730,477	4,091,284	2.01	1.96
Washington	1,951,414	2,111,479	2.40	2.36
Other States (a)	29,346,598	32,775,038	1.73	1.86
	117,701,216	135,912,118	1.76	1.90

State	Active plants		Production barrels		Increase 1923 (per cent.)
	1922	1923	1922	1923	
Alabama	3	5	2,290,884	3,497,256	53
California	9	9	8,711,515	11,001,910	26
Illinois	4	4	6,407,129	7,147,906	12
Iowa	4	5	4,272,432	5,732,470	34
Kansas	7	7	4,634,287	6,025,657	30
Michigan	12	14	6,243,805	7,619,792	22
Missouri	5	5	6,170,633	7,305,997	18
New York	9	9	5,922,706	6,990,174	18
Ohio	5	6	2,835,243	4,188,755	48
Pennsylvania	22	22	33,276,093	38,137,482	15
Texas	5	5	3,628,756	4,178,895	15
Washington	4	4	1,942,781	2,105,711	8
Other States*	29	31	28,453,720	33,508,233	18
	118	126	114,789,984	137,460,238	20

*Including Colorado, Georgia, Indiana, Kentucky, Maryland, Minnesota, Montana, Nebraska, New Jersey, Oklahoma, Oregon, Tennessee, Utah, Virginia and West Virginia.

St. Louis Asks Bids on \$1,200,000 Market.

St. Louis, Mo.—At a recent meeting of the St. Louis Board of Public Service, July 22 was set as the date for award of contract for the union market and public garage which will cost \$1,200,000 complete. Plans call for a three-story building, the two upper stories to be used as a garage. It is estimated that the cost of construction will be about \$850,000, while the market equipment will cost \$150,000. As the \$1,000,000 provided in a bond issue will only be sufficient to defray the cost of the market, it is planned to appropriate an additional \$200,000 to complete the garage.

Highway Delegates Inspect Steel Plants.

Newport, Ky., June 13.—The Pan-American Highway Commission, composed of delegates from Cuba, Mexico, Central America and South America, was entertained in this city yesterday by officials of the Newport Rolling Mill Co. and the Andrews Steel Co. In the official party also were representatives of the Highway Education Board, Washington, and other officials. After a dinner to the guests an inspection was made of the Andrews Steel plant, where the different processes of steel making were explained. The plant of the Newport Rolling Mill was also visited.

The commission is en route to Lexington, Ky., thence to Springfield, Ill., and other cities of the middle West.

Work Begun on \$2,000,000 Ford Plant at Norfolk.

Concerning the \$2,000,000 assembly plant at Norfolk, Va., contract for which has been awarded by the Ford Motor Co. of Detroit to the Rust Engineering Co. of Pittsburgh, Pa., the latter company wires the MANUFACTURERS RECORD that excavation has begun. The assembly building will be 800 by 300 feet, single story, 25 feet high; oil house 115 by 70 feet, one story, and power house, 70 by 65 feet, one story and basement.

All buildings will be of structural steel frame, with solid brick curtain walls, steel sash, precast roof with tile built in and limestone trim. Heating, plumbing and electrical work will be let separately. Plant equipment will be installed by the Ford Motor Co.

Blue Book of Southern Progress as Viewed by Leading Newspapers.

A Compact Cyclopedia of Facts.

[Dallas (Texas) Morning News.]

The similarity of climate, resources, crops, and hence of vocational pursuits, which extends from the South Atlantic seaboard to the tablelands of far west Texas, binds the Southern states in an economic and social homogeneity and impels them to consider their major problems in common. Or perhaps it would be better to say "would impel them," for the states of the South have a striking tendency to work independently, though present and past political and economic history would dictate a course of co-operation.

To make it a "solid South" other than at the polls has been the aspiration of certain outstanding men and institutions, than which possibly none has been more outstanding than Richard Hathaway Edmonds with his MANUFACTURERS RECORD. To increase interest in Southern resources and call attention to its commercial possibilities, the MANUFACTURERS RECORD has published annually for the last few years its "Blue Book of Southern Progress," a compact cyclopedia of facts relating to the states of the cotton belt.

The edition of 1924, copy of which has recently been received by the News, is even more complete than previous issues. Aside from the regular annual tabulations of crop productions, mineral output, manufactures, bank resources and transactions, building records and export and import trade, there are chapters bearing upon new phases of commercial and industrial development, including chemical resources, the present cotton situation, power resources and railroad expansion.

The Blue Book attempts little propaganda other than through facts, and some of these facts will be interesting to the average Southerner, who is accustomed to believe that the South's one really great resource is its cotton-growing soil. And, what is more significant, such facts will appeal to the progressive business enterprise throughout the nation. The South's resources in sulphur, asbestos, fuels, zinc, lead, commercial fertilizers, aluminum and other minerals are set forth in striking figures. The Blue Book's practical method of stimulation of interest in the resources of this great area is no doubt proving an invaluable aid to its development.

"Northerners as Well as Southerners Would Be Instructed by Reading It."

[Hartford (Conn.) Courant.]

The MANUFACTURERS RECORD of Baltimore has issued an attractive "Blue Book of Southern Progress," a copy of which has been received in this office. It gives a splendid digest of the material resources and the progress of the South. Richard H. Edmonds writes an introduction in which he says that without some understanding of the character and energy of the people of the Old South prior to the Civil War, some knowledge of what that section of the country endured during the war and the eleven years of reconstruction which followed, it is impossible adequately to understand what has been accomplished since 1865, or to measure the potentialities of the future. He says that one often hears people of the present generation, taking their cue from the books and the newspapers and magazines of other sections, say that the people of the Old South were an easy-going non-progressive, pleasure-loving folk who knew little about science, or art, or industry, and had never made much achievement in these things. He believes it a lamentable fact that while in the educational institutions of the South the political power and statesmanship of the Old South is duly heralded, comparatively little attention is given to acquainting the students with the fact that the greatest

business leaders which the country had produced up to that time were the business men of the South prior to 1860. He adds:

"Equally as slack have been many of our teachers in training the rising generations since 1865 to understand the scientific and industrial achievements of the Old South and the progress of this section in literature. As a writer has written, the people of the Old South were so busy in making history that they left to others the writing of it."

Many articles in the book are of a nature that would prove Mr. Edmonds' claim. Northerners as well as Southerners would be instructed by reading it.

"If Abram S. Hewitt Had Gotten Red Mountain, Would There Be a Birmingham?"

[Birmingham (Ala.) News.]

From "The Blue Book of Southern Progress" for 1924, that exceedingly valuable annual publication issued by the MANUFACTURERS RECORD of Baltimore, is taken a paragraph of great interest to the people who now compose this great city and district:

Abram S. Hewitt, one of the foremost ironmasters of the country, and often called the first citizen of America, was so deeply impressed with the advantages of the South that in 1857 he secured an option on the Red Mountain district of Birmingham, intending to begin a great iron development there, but seeing the probability of a war he abandoned the undertaking. He never, however, lost his deep interest in the South, and was during his whole business career a large investor in Southern enterprises. Of the South he wrote:

"There is no corresponding region on this habitable globe which has so many advantages as the South, all available by natural or artificial connections, and capable of more economic operation than any other part of the country."

It was in the same spirit of enthusiasm, based on a study of the South, that Richard A. McCurdy, for many years president of the Mutual Life Insurance Company, New York wrote:

"The Southern people possess a region unsurpassed on earth in its natural resources. With the intelligence and energy which characterizes them, these resources ought, during the next generation, to experience a development which will place them among the foremost communities of the civilized world in wealth and happiness."

The Hewitt episode is not generally known. Suppose he had gone ahead with his plans? Inevitably there would have been a great manufacturing district here, but it is doubtful if its growth would have been as orderly and as steady in building a great city and manufacturing community. It most likely would have been a haphazard development, and instead of being the magnificent modern city existing here today, laid out and visioned as a great city, there would have been a hodge-podge growth.

Nor is it at all certain there would have resulted a city the growth and advancement of which has amazed the world. In addition to natural resources, there must be transportation; that is the vital link. Without it, and without the necessary rates, the mineral store is useless.

To the unfailing and unflagging and loyal interest of Milton H. Smith and the Louisville and Nashville Railroad is Birmingham greatly indebted for its growth past the period where there was uncertainty as to its future. In the main the other railroads have been fair and co-operative, but it should never be forgotten by Birmingham people the part that Milton H. Smith and his railroad played in our growth. Some one suggested once that a monument should be erected to Milton H. Smith and placed in Capitol Park. Why, all of Birmingham is, in a way, a monument to that great old railroad captain! And the prophetic words of R. A. McCurdy are being vindicated every day.

THE IRON AND STEEL SITUATION

No Further Decline in Steel Buying—Belief in Upturn Soon.

Pittsburgh, Pa., June 23.—[Special.]—There are additional indications that an upturn in the volume of steel buying may not be far distant. It is fair to say that in the trade, among producers and consumers there are no definite predictions that there will be an early upturn. The trade is much disposed to use precedent as a guide, overlooking the fact that the steel trade really has a great habit of violating precedents.

In several lines, particularly in sheets and merchant bars, some mills have observed in the past week two things—an increase in buying, not by way of the average size of the individual orders being larger, but by there being a larger number of orders, and a wider range in the specifications as to sizes, etc. The inference is that there are more cases of buyers' stocks having become depleted, and the main point in the steel trade in the past three months has been liquidation of stocks. Production last March was in excess of actual consumption, while now it is below actual consumption.

Fabricated steel lettings in May are now reported at 56 per cent of the fabricating shop capacity, against 65 per cent in April. Superficially, the showing is unfavorable, but the fact is that a seasonal decrease was in order. Last year the lettings decreased from 78 per cent in April to 57 per cent in May, so that last month was two points better than the same month a year previous. Last year could not be considered a poor year, as the official report of production of structural shapes showed 3 per cent more tonnage produced than in any previous year.

It is a question whether there has been any increase in the total volume of steel buying in the past week or two, but it is certain that there has been no material decrease. The rate of buying since the beginning of May has been at about 30 per cent of steel-making capacity. Excess in production above this has been due to old orders, and, of course, the old orders are gradually playing out. This accounts for the continued decrease in steel production. The rate of steel ingot output last week is estimated at about 40 per cent of capacity, or a little over 20,000,000 gross tons a year, against about 48 per cent at the beginning of May and about 95 per cent at the peak, in the part of March. The rate may go down to 35 per cent at the middle of July, but will hardly reach 30 per cent. Then an upturn can hardly be avoided, as everything will have been shaken out and there will be no opportunity for any change but in the upward direction.

While steel ingot production is not much above 40 per cent, production and shipment of finished steel is at between 45 and 50 per cent, as mills are liquidating stocks of ingots and semi-finished steel. The rail mills have the best operation, at not far from normal full. Pipe and tinplate mills are doing about 65 per cent, while sheet mills are going at about 45 per cent. Operations at other finishing mills range downward, approximately in the following order: Bar, structural, wire and plate mills.

Steel prices cannot be said to be definitely declining. They are not advancing and they are not precisely stationary, but since the beginning of May there has been merely a little slip here and there. On May 1 bars, shapes and plates were at 2.20c to 2.30c in the Pittsburgh market. Now plates are 2.15c to 2.20c, while bars and shapes are 2.20c with little range upwards, and mills are glad to name the minimum price on small orders that are usually considered undesirable. By the middle of May wire products had declined \$2 a ton, to a basis of 2.65c for plain wire and \$2.90 for nails, Pittsburgh

base. These prices are held rigidly in the major part of the there is a little shading, a few cents a hundred pounds, not sales territory, while in some areas, particularly in the South, as much as ten cents. Merchant pipe prices are held rigidly by mills, and as jobbers are now pretty well liquidated there is less shading than formerly in the secondary market.

There has been further buying of pig iron, and the turn-over in the past two or three weeks makes a large tonnage from the viewpoint of the stagnant market that had prevailed for three months or more, but it does not in most cases make a good showing from the viewpoint of the tonnages the consumers ordinarily take. The sanitary-ware makers, however, are taking very full tonnages. The Standard Sanitary Manufacturing Company has bought 22,000 tons for its Allegheny and New Brighton plants. This was bought at \$19, valley, 50 cents under the market of a week ago, and \$1 decline in three weeks. Some sellers, however, would not meet this price. The company has not bought its Southern iron yet for the Louisville plant, prices quoted on Birmingham iron being higher than usual relative to Northern iron.

The scrap market, which usually anticipates general swings in steel, has been stiffening in the past week. The one mill in the Pittsburgh district that has been buying heavy melting steel lately had to raise its price from \$16 to \$16.50 to get a little more scrap, while dealers have in several cases paid above their former bid of \$15.50 to get material to put into yard. The dealers will have to have a market of about \$18 or higher to make a profit on their yard scrap, and presumably they fully expect to get this before the end of the year.

Hope Prevails Despite Lagging Market.

Birmingham, Ala., June 23.—[Special.]—Southern furnace interests are still hopeful and strong in the belief that there will not be need for much more curtailment of production. The sales lately have shown no improvement and the tentative program of shutting down furnaces to meet the demand is still most likely to be followed. Exactly on what the furnace interests base their hope cannot be stated, but after the turn of the month the prospects will be brighter, according to some of the interests.

Quotations are still given at \$20 to \$21 per ton, No. 2 foundry, with consumers looking for concessions, even on the lower price stated. There has been a little iron placed on the yards again, the surplus stock on the turn of the month to show increase, notwithstanding there has been curtailment of production. Not much iron is being shipped from the district. The home consumption has been showing deflection right along, the principal direction being with the cast-iron soil pipe and fittings manufacturers. The pressure-pipe makers have enough business on hand to warrant capacity operation, and this condition is assured through August.

Reiteration is to be heard of the statement that there is to be very little iron accumulated in this district at the high costs of production. Rather than pile iron, the plan is to shut down furnaces. The furnaces put out of commission are left in such shape that on very short notice they could be started up again.

The greater portion of the business being transacted now in pig iron in this territory is in small lots, from one to three cars at the time. The sales of 20,000 tons to the United States Cast Iron Pipe and Foundry Company and 5000 tons to the American Radiator Company are again pointed to as having failed to stimulate the market. The improvement reported in other districts has not yet brought about higher

prices, so that, with the freight added, Southern furnace companies cannot compete. The lagging iron market is not shared in strictly by the steel mart. There is plenty of room, however, for improvement in steel. The Gulf States Steel Company, independent, has but two of its six open-hearth furnaces in operation, and the finishing departments of the mill are limping also. The Tennessee Coal, Iron & Railroad Company plants are going at about 85 per cent. Some departments are operating to capacity. In some shapes there is much stock in warehouses; stocks have been piled. Though the market is quiet, there has been no hesitation in the developments which have been under way for some time or recently planned. Finished steel is finding a better market, and to this end the trend of development apparently is being bent.

Slight improvement is noted in the scrap iron and steel market in the South. Reason is shown why there should be a scarcity a little later on No. 1 cast and stove plate, the two more prominent old-material products today. Consumers will not take country scrap, and dealers are finding difficulty in caring for all this class being offered. The larger consumers of stove plate are practically making their own prices and lately have been placing some contract. No. 1 cast consumers are also taking on a little tonnage at prices suitable to them. Heavy melting steel, which should be the popular old material, has been lagging recently and is quoted at much lower prices than for many months, even as low as \$11 per ton. The turnings and borings also have shown much weakness lately. Dealers have been keeping up their stock. The buying of a little stove plate and No. 1 cast the past week adds to the contracts on hand, and there will be more or less steady moving of the product.

The coke market is slow, but still remarkable in the face of other conditions. Much coke is being produced, and there is steady movement. Morris W. Bush, president of the Alabama By-Products Corporation, with plant at Tarrant City, just outside of the city limits of Birmingham, expresses the opinion that the coke market is due for improvement; there has been no curtailment of production at his plant and a market has been found for all the by-products.

Building operations in Birmingham alone will require much steel and other products. The Southern Railway has again taken up consideration of the erection of a 10-story office building in Birmingham. The foundations are being dug for the Redmont Hotel, a 13-story structure with basement on Fifth avenue and 21st street. Much progress has been made on the first unit of the First Christian Church, the entire structure to cost around \$800,000. Ground will be broken shortly for the Medical Arts office building at the corner of 23d street and Fourth avenue, a 12-story building to be put up. The Birmingham Athletic Club has completed financial arrangements for a 10-story club and apartment building on 23d street and Third avenue. Other structures are planned.

Developments of an industrial nature heretofore detailed are not being interfered by the dull iron and steel markets. All such work is showing progress.

Quotations for pig iron and iron and steel scrap follow:

OLD MATERIAL.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$20.00 to \$21.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$20.50 to \$21.50; iron of 2.75 to 3.25 per cent silicon, \$21.00 to \$22.00; iron of 3.25 to 3.75 per cent silicon, \$21.50 to \$22.50; iron of 3.75 to 4.25 per cent silicon, \$22.00 to \$23.00; charcoal iron, f. o. b. furnaces, \$24.00 to \$25.00.

PIG IRON.

Old steel axles.....	\$17.00 to \$18.00
Old iron axles.....	19.50 to 20.00
Old steel rails.....	13.00 to 14.00
Heavy melting steel.....	13.00 to 14.00
No. 1 cast.....	17.00 to 18.00
Stove plate.....	14.00 to 15.00
No. 1 R. R. wrought.....	11.00 to 12.00
Old car wheels.....	15.00 to 15.50
Old tramcar wheels.....	15.50 to 16.00
Machine shop turnings.....	5.00 to 6.00
Cast iron borings.....	6.50 to 7.00
Cast iron borings (chem.).....	15.00 to 16.00

RAILROADS

A Railroad Aiding in Texas Development.

Farming as it is conducted in the Texas regions traversed by the lines of the San Antonio & Aransas Pass Railway is accurately and attractively described and illustrated in a fine folder issued by the farm and immigration department of that company, 420 Bedell Building, San Antonio, Tex. This railroad system serves a territory which is described as possessing fertile soil, excellent water and favorable climate for diversified crops. The preface to the folder says it is published to acquaint those who do not know the possibilities of south-central Texas with the benefits that would come to them through settling on newly improved farms there.

The railroad company, it is further noted, does not own any lands and it does not sell any, but is interested in seeing that those who desire to locate in this part of Texas secure lands suitable for their purposes and that they are informed about how to farm them to get the best results; it also aims to assist in marketing farm products and in helping to promote community development, but there is no charge made for this service. The illustrations show various crops growing, including dates, grapes, figs, oranges, grain, sorghums, corn, sudan grass, strawberries, maize, clover, cotton, etc. Melons, peanuts, potatoes and other vegetables are also grown successfully.

Cattle raising is another farming industry. Turkeys and chickens are also raised in quantities. Sheep and goats are raised, the Angora goat being developed in some sections. Bee culture is another industry. Pecan nuts are extensively produced. Field crops generally do not need irrigation, but garden vegetables, berry and fruit crops may be materially increased by judicious irrigation, which can be provided either from artesian wells, pumping from streams, or by wells and windmill pumps. The little book is comprehensive and its contents will be appreciated by everyone who reads it.

Seaboard's New Palm Beach Line May Be in Use Next Winter.

Construction forces will at once push the work of building the Florida Western & Northern Railroad of the Seaboard Air Line System now that the Interstate Commerce Commission has authorized the plan. Because of the early decision it is expected that the road will be completed in time to handle tourist travel next winter. Engineering and construction difficulties are not great in that part of Florida which the line will traverse, and a big army of men with machinery will start in to work as soon as possible. It is understood that thirty steam shovels and several thousands of grading and other workmen are waiting to plunge into the job. Surveys have been completed and rights of way have been obtained. Some clearing of the right of way has been done in anticipation of grading. The line will be 205 miles long from Coleman, on the Seaboard Air Line, to West Palm Beach, Fla.

Loadings of Freight Keep Up.

Loadings of revenue freight on the railroads during the week ended June 7 totaled 910,707 cars, according to a statement issued by the American Railway Association. This showed an increase of more than 90,000 cars as compared with the next preceding week, when shipments were somewhat curtailed on account of the Decoration Day holiday. All kinds of freight, excepting coke, showed increases in loadings. Since January 1 there have been 20,471,942 cars loaded with revenue freight. Last year during the same period 20,970,211 cars were loaded.

Equipment Contracts and Financing.

Chesapeake & Ohio Railway has sold privately through a New York syndicate headed by J. P. Morgan & Co. a new issue of \$18,000,000 of 5 per cent equipment trust certificates covering 50 heavy Mikado type and 50 light Mikado type locomotives, 1000 automobile box cars, 5500 hopper bottom gondola cars, 600 hopper bottom ballast cars, 15 steel express cars, 4 steel dining cars, 100 steel superstructure caboose cars, 5 steam locomotive cranes and 4 Jordan spreaders, all of these according to previously announced orders for equipment.

Application for permission to issue \$1,000,000 of 5 per cent equipment trust certificates has been filed with the Interstate Commerce Commission by the Carolina, Clinchfield & Ohio Railway, this it is stated, being to cover the purchase of 20 large freight locomotives, 10 of the Mallet type and 10 of the Mikado type.

Missouri Pacific Railroad has ordered 225 tons of steel deck plate girder spans from the American Bridge Co.

Inquiries for structural steel reported in the market include 5000 tons for the Southern Railway for a bridge at Burnside, Ky., and 3000 tons for the Santa Fe System.

Pullman Car Manufacturing Company Formed.

The Pullman Car Manufacturing Corporation has been organized at Chicago with \$50,000,000 capital stock and it has taken over the manufacturing properties of the Pullman Company at Pullman, Ill., and Michigan City, Ind., and is now in operation. Its chief officers have been connected with the manufacturing department of the Pullman Company.

D. A. Crawford, formerly vice-president of the Pullman Company, is president of the new corporation; Clive Rannels, former vice-president of the parent organization, is first vice-president, and C. A. Liddle, a former vice-president of the older company, is also a vice-president of the new corporation. W. N. Oehm, works manager for the Pullman Company, goes to the new corporation in the same capacity, and S. V. Gehr is secretary. These officers are also directors of the new company, the board being completed by another director—Ralph M. Shaw.

The organization of the new company, it is understood, places the manufacturing departments of the Pullman Company outside of the authority of the Interstate Commerce Commission.

Change of Name of Terminal Company.

The name of the Trans-Mississippi Terminal Railroad Company, which operates facilities of the Texas & Pacific Railway and the Missouri Pacific Railway in and around New Orleans, has been changed to Texas Pacific-Missouri Pacific Terminal Railroad Co. of New Orleans. J. M. Egan, vice-president and general manager of the Missouri Pacific Railroad, was elected to be vice-president and a director of the new company. This step, it is understood, is in line with the policy of the Missouri Pacific Railroad to develop and increase its facilities for handling traffic in and out of New Orleans as well as to further develop railroad traffic in connection with steamship traffic at that port.

Contract Let for \$3,000,000 Shops.

The Southern Railway Company has awarded a contract to Dwight P. Robinson & Co. of New York, for the construction of new freight and passenger car repair shops at Hayne, near Spartanburg, S. C. The company has bought land there, (about 180 acres, it is reported), and the entire improvement is expected to cost about \$3,000,000. The new shops, it is said, will take the place of those recently burned at Gadsden, Ala.

TEXTILE

Secures Silk Mill in West Virginia.

Shinnston, W. Va., June 21.—[Special.]—The Ridge Silk Co., operating a mill at Shinnston, has been absorbed by the Derbrah Silk Corporation, organized under the laws of New York, with a capital stock of \$1,000,000, to manufacture broad silks. General offices of the company are located at Buffalo, where a new factory is being built. The silk-throwing mill at Shinnston is valued at \$250,000. William J. Hartman of Shinglehouse, Pa., is president of the Derbrah corporation.

Additional Contracts on Tallassee Weaving Mill.

Tallassee, Ala.—Contract for heating, sprinkling and humidifying systems for the new 30,000-spindle weaving mill under construction at the Tallassee Mills here for the Mt. Vernon-Woodberry Mills, Inc., of Baltimore, has been awarded to the Parks-Cramer Co. of Charlotte, N. C., the cost of the installations to reach a total of more than \$55,000. Tucker & Laxton of Charlotte have been awarded contract for water works, sewerage system and street improvements in a new mill village to be erected in connection with the enlargement of the mill.

As reported in the MANUFACTURERS RECORD several weeks ago, Potter & Shackelford of Greenville, S. C., are general contractors for the erection of the new weave mill, the main building to be four stories, 367 by 144 feet, of reinforced concrete construction. There will be an opener building, 80 by 100 feet, warehouse, 175 dwellings and other structures. The Wilson Co. of Greenville has contract for reinforcing bars, miscellaneous cast and wrought iron and structural steel.

J. E. Sirrine & Co. of Greenville, are the engineers.

Late Planting of Cotton Advocated as Remedy Against Boll Weevils.

Atlanta, Ga., June 23.—[Special.]—That Georgia farmers will have the opportunity of a lifetime this spring to exterminate the boll weevil is the opinion expressed recently by J. J. Brown, Georgia Commissioner of Agriculture, who said: "Conditions this spring have been more favorable for weevil extermination in Georgia than at any time since this pest entered the state."

Early in the year, he explained, a series of exceptional "cold waves" swept over the section, killing out many of the weevils before they came out of hibernation. Following this was a long period of cool weather, after which the weevils came out of hibernation. This resulted in farmers everywhere holding back on the planting of cotton, which, in turn, left it hard for the boll weevils to find enough food. As a result, many millions of weevils, coming out of winter quarters, have starved to death, and this condition is true in every section of the state.

"With the number of weevils drastically reduced in every section by this combination of circumstances," said Mr. Brown, "if farmers will watch their fields carefully, pick the first squares as fast as they appear, and use calcium arsenate liberally on the growing cotton, they will have the best chance they have ever had to get rid of the boll weevil."

Leading authorities are coming more and more to look upon late planting as a means of holding the boll weevils in check. They say that if the hibernating weevils do not find cotton in which to lay their eggs for the first crop of weevils, they will starve to death, and the number will be materially reduced and the fight for cotton made much easier.

Duval county, Texas, has voted a bond issue of \$400,000 for the construction of a paved highway through the county.

GOOD ROADS AND STREETS

Georgia Asks Bids for 25 Miles and Several Bridges.

East Point, Ga.—Bids will be received until July 2 by the State Highway Department of Georgia, at its office in this city, for the construction of 25 miles of roads and several bridges. The work will include 10 miles of concrete in Mitchell county, .676 miles in the city of Camilla, .58 miles in Polk county, 9.07 miles of graded road in Brantley county and 4.582 miles of paved road in Muscogee county. On the last-named project alternate bids will be received on concrete, sheet asphalt, vitrified brick on a concrete base and vitrified brick on a gravel base.

Bridge projects will include one over the Ocmulgee River near Lumber City, on which three contracts will be let. Contract No. 1 will not be awarded at this time, but alternate bids will be received on Contract No. 2 for creosoted timber floor gravel surfacing and for concrete floor. On Contract No. 3 of this project bids will be received on two steel trusses, 100 feet, and one steel swing span of 208 feet. Two contracts will be let for a steel bridge over the Chattahoochee River near Fort Gaines, while another contract covering grading for approaches will be let later. A 30-foot steel I-beam span bridge will be constructed on the Savannah-Statesboro road, connecting Bryan and Effingham counties.

Plans and specifications may be obtained from W. R. Neel, state highway engineer.

Twelve Miles to Cost \$228,583.

Bids recently submitted to the Maryland State Roads Commission, Baltimore, for the twelve miles of road construction aggregate \$228,583. Following are the lowest bidders: S. T. Brotemarkle, Cumberland, Md., at \$62,374, for 3.36 miles of macadam resurfacing in Allegany county; St. Mary's Construction Co., Mechanicsville, Md., at \$9377, for 1.03 miles of gravel in Prince George's county; T. B. Lewis & Son, Hyattsville, Md., at \$38,287, for 3 miles of gravel in Calvert county; Slocum, Brohawn & Woolford, Cambridge, Md., at \$85,441, for 3.6 miles of concrete in Dorchester county, and John K. Flick, Sudlersville, Md., at \$33,104, for one mile of concrete in Worcester county.

Miami Asks Bids for Street Work.

Miami, Fla.—Bids will be received until July 1 by the Miami City Commission for street paving, the work to consist of furnishing materials and laying approximately 124,064 square yards of water-bound macadam with oil treatment; 63,599 square yards of 2-inch bituminous macadam on 5-inch pit rock base; 125,959 square yards of 3-inch sheet asphalt on 5-inch pit rock base; 79,535 linear feet of 3-inch terra cotta pipe; 212 sewer inlets or catch-basins; 28 sewer manholes, and approximately 334,299 square yards of paving.

Plans and information may be secured from Ernest Cotton, director of public service.

Kentucky Highway Commission Approves Plans.

Frankfort, Ky.—Plans for road construction recently approved by the Kentucky Highway Commission embrace the following: Fifteen miles in Pulaski county, 1.5 miles in Floyd county, road from Springfield to Mackville in Washington county, from Brandenburg station to Grahamton in Meade county, 6.8 miles of gravel in Metcalfe county, 3 miles of macadam reconstruction in Garrard county, 10 miles of water-bound macadam surface treatment in Harrison county, 2.2 miles in Nicholas county, readvertise project 10-C in Caldwell county, and contract project 10 in Muhlenburg county.

\$400,000 Link of Spanish Trail Completed.

Pascagoula, Miss.—The first link of the Old Spanish Trail from the Alabama state line to Pascagoula has been opened to traffic and tourists may now travel over a 15-mile concrete highway, eighteen feet wide, through what was once in wet weather an impassable morass. Work on this link was started in February of last year and its cost was \$400,000, of which the Federal Government paid 50 per cent.

Grading on the second link of the Old Spanish Trail from West Pascagoula River to Ocean Springs, 12.4 miles, is progressing, but it will probably be ten or twelve months before that end of the route is finished.

Invites Bids on Street Work.

Henderson, Tenn.—The Board of Mayor and Aldermen of this city will receive alternate bids until June 30 on concrete, rock asphalt and oil gravel street construction, embracing work on Main street covered by four ordinances, and work on Crook avenue covered by one ordinance. Plans, specifications and proposal forms may be secured from the office of W. J. Baldy, recorder, Henderson, or from L. O. Brayton, consulting engineer, Dyersburg, Tenn.

Mingo County Opens Road Bids.

Williamson, W. Va.—The lowest bid recently submitted to the Mingo County Road Department for grading and draining the Naugatuck-Duncan Fork road was presented by Ira Webb of Williamson at \$59,908, and for grading and draining the Burch-Trace Creek road by Waugh & Longley, also of Williamson, at \$59,546. Reinforced concrete pipe will be used on both of these projects. J. R. Hunt of Williamson is the road engineer.

Notes on Good Roads Construction.

Hughes county, Roy Graee, county engineer, Holdenville, Okla., has voted a bond issue of \$400,000 to build roads.

Jefferson parish, Louisiana, William Hepting, secretary of Police Jury, Gretna, has voted \$500,000 of road bonds.

The Board of City Commissioners of Galveston, Tex., is considering an election for July 2 on a bond issue for \$350,000 for street paving.

The state road department, Tallahassee, Fla., has awarded contract to W. J. Conners, West Palm Beach, at \$161,765, for the construction of a bridge over the Kissimmee River on state road No. 8.

The lowest bid for the construction of 3.87 miles of concrete road in Mobile county, Ala., from Green Bay to the Mississippi county line, has been submitted by J. Fromherz, New Orleans, La., at \$112,958, and for a concrete bridge on this project, by Hancock Bros. of Mobile, Ala., at \$14,861. ?

The State Highway Department, Jackson, Miss., will receive bids until July 10 for the construction of a reinforced concrete bridge over Pearl River on the Brandon road, near Jackson, plans for which are being prepared. The bridge is estimated to cost \$160,000, to be paid for jointly by Hinds county and the Federal Government.

The Board of Trustees of the town of Poor Fork, Ky., will receive bids until July 7 for the construction of a number of streets of reinforced concrete, or of concrete base with Kentucky rock asphalt top, plans and specifications for which are on file at the office of the town clerk and at the office of Campbell Wallace, engineer, Knoxville, Tenn.

LUMBER AND BUILDING MATERIALS

Lumber Industry on the Mend.

Washington, June 19.—With 369 of the larger commercial sawmills of the country making comparable weekly reports for the week ending June 14, says the National Lumber Manufacturers' Association, production and new business showed an increase, while shipments decreased somewhat, compared with similar reports of 348 mills for the preceding week. As compared with the corresponding week in 1923, there was a slight increase in new business, and a considerable decrease in production and shipments.

Unfilled order reports were not received from the Southern Pine mills, but 120 West Coast mills showed a total order file at the end of last week of 256,286,855 feet, as against 252,667,283 for 119 mills a week earlier.

Altogether, the 369 comparably reporting mills had shipments of 91 per cent and orders of 85 per cent of actual production. For the Southern Pine mills these percentages were, respectively, 98 and 94, and for the West Coast mills 100 and 94. Of the comparably reporting mills, 344 (having a normal production for the week of 218,353,643 feet) reported production 98 per cent of normal, shipments 91 per cent, and orders 85 per cent thereof.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

	Past Week	Corresponding Week 1923	Preceding Week 1924 (Revised)
Mills	369	380	348
Production	231,442,358	256,459,537	225,911,878
Shipments	209,858,822	232,023,819	222,712,571
Orders	196,192,014	194,504,323	185,758,287

The following figures compare the reported lumber movement for the first twenty-four weeks of 1924 with the same period of 1923:

	Production	Shipments	Orders
1924	5,671,835,064	5,592,729,506	5,220,715,837
1923	5,612,967,733	6,014,873,359	5,702,618,093
1924 Increase	58,867,331		
1924 Decrease		422,143,853	481,902,256

The mills of the California White and Sugar Pine Association make weekly reports, but they are not comparable in respect to orders with those of other mills. Consequently,

LUMBER MOVEMENT FOR TWENTY-FOUR WEEKS, AND FOR WEEK ENDING JUNE 14.

	Production		Shipments		Orders	
	1924	1923	1924	1923	1924	1923
Southern Pine Association:						
Total	1,883,275,489	1,852,570,115	1,857,946,951	1,972,011,170	1,758,501,683	1,882,155,000
Week (126 mills)	71,067,475	74,553,185	69,881,826	66,940,798	67,032,567	62,073,902
West Coast Lumbermen's Association:						
Total	2,345,018,515	2,371,568,164	2,429,708,428	2,623,643,587	2,222,803,112	2,499,688,113
Week (120 mills)	91,787,746	111,948,829	91,863,912	111,696,281	86,033,764	91,265,048
Western Pine Manufacturers' Ass'n:						
Total	662,361,000	602,204,000	609,605,000	635,903,000	586,550,000	592,925,000
Week (37 mills)	33,886,000	36,324,000	23,335,000	27,604,000	19,475,000	20,950,000
California Redwood Association:						
Total	214,077,000	205,219,000	174,932,000	218,351,000	169,350,000	233,611,000
Week (15 mills)	8,591,000	8,835,000	4,987,000	8,390,000	5,701,000	9,671,000
North Carolina Pine Association:						
Total	191,372,016	218,769,754	191,639,206	232,398,502	159,637,042	189,720,080
Week (46 mills)	8,511,937	7,880,423	3,900,684	7,408,740	8,326,683	3,306,373
Northern Hemlock and Hardwood:						
(Softwood) Total	58,246,000	59,930,000	56,011,000	63,592,000	46,564,000	59,761,000
Week (16 mills)	3,474,000	3,029,000	2,008,000	1,902,000	1,871,000	1,351,000
Northern Pine Manufacturers' Ass'n:						
Total	201,914,050	221,172,700	195,963,921	199,720,100	205,008,000	179,526,900
Week (9 mills)	11,398,200	13,889,100	7,333,400	8,082,000	5,596,000	5,887,000
General Total for 24 weeks:						
(Softwood)	5,556,264,064	5,531,433,733	5,515,826,506	5,945,619,359	5,148,413,837	5,637,387,093
Northern Hemlock and Hardwood:						
(Hardwood) (24 weeks)	115,571,000	81,534,000	76,903,000	69,254,000	72,302,000	65,231,000
California White and Sugar Pine:						
(24 weeks)	307,973,000	256,459,537	329,576,000	232,023,819		194,504,323
General Total for Week:	231,442,358		209,858,822		196,192,014	

California White and Sugar Pine reports not included in totals, because "order" reports not comparable.

the former are not represented in any of the foregoing figures. Thirteen of these mills reported a cut of 10,821,000 feet last week, shipments 5,968,000 and orders 5,730,000. The reported cut represents 25 per cent of the total of the California Pine region.

The West Coast Lumbermen's Association wires from Seattle that new business for the 120 mills reporting for the week ending June 14 was 6 per cent below production, and shipments were 7 per cent above new business.

The Western Pine Manufacturers' Association of Portland, Ore., shows a slight gain in production and a falling off in shipments and orders.

The California Redwood Association of San Francisco reports a considerable increase in production and new business. Shipments decreased.

The North Carolina Pine Association of Norfolk, Va., with fifteen more mills reporting this week than for last, shows a marked increase in production. Shipments and new business almost doubled those of the preceding week.

The Northern Hemlock and Hardwood Association of Oshkosh, Wis., reports a slight gain in all three factors.

The Northern Pine Manufacturers' Association of Minneapolis reports a slight gain in production and new business and a noticeable increase in shipments.

To Study Effects of Fire in Loblolly Pine.

Near Urania, La., members of the Southern Forest Experiment Station have recently completed work on what the United States Forest Service describes as a very complete series of sample plots for fire study in the loblolly pine region. On these plots are trees of various ages and, in the younger stands, various densities of growth. Sixteen plots in all will be burned, and at different times of the year, to compare the severity of spring, summer, autumn and winter fires. It is expected that spring and summer fires will kill many trees in all three age classes, and that even the autumn and winter fires will kill at least a few of the youngest seedlings. A report of the outcome of the experiments will be issued at a later date.

Reforestation of 14,810 Acres in Louisiana.

Bogalusa, La.—The acceptance of 14,810 acres of denuded lands of the Great Southern Lumber Co. of Bogalusa, to be placed under reforestation contract in accordance with Act 90 of 1922, has been announced by the department of conservation at Baton Rouge. In its contract the Great Southern Lumber Co., it is said, agrees to reforest these lands artificially or naturally as the case may be.

To meet its needs, the company has established a large nursery, from which it expects to obtain 5,000,000 or more pine seedlings this fall, planting 1000 to the acre. The Great Southern Lumber Co. now has 70,000 acres of denuded land under reforestation with the state and enjoys the distinction, it is said, of having the largest single reforestation area in the United States.

Meeting of Hardwood Institute at Memphis.

The Hardwood Manufacturers' Institute has announced from its offices at Chicago, that plans are complete for the luncheon to be held on Thursday of this week, June 26, at the Gayoso Hotel, Memphis, and for the special meeting of the Institute to follow. All hardwood manufacturers have been invited to attend. An invitation also to gum lumber manufacturers, to attend a meeting to discuss advertising plans has been sent by Curtis Dewey of Chapman & Dewey Lumber Company, Memphis.

In accord with a resolution adopted by the Institute on June 3 its trade promotional plans are to be centered upon specie advertising. This resolution likewise provided that hardwood manufacturers outside the membership of the Institute would be invited to participate in this advertising program.

Lumber Manufacturers in Convention.

New Orleans, June 23.—Many lumber manufacturers from all parts of the South will convene in Memphis on Thursday and Friday of this week for the midsummer meetings of the Southern Pine Association's board of directors and subscribers and various committees of the Association. Among the subjects on the program are the feasibility and advisability of establishing a hardwood department in the Association, with a preliminary report on a survey of the amount of standing yellow-pine timber in the South.

New Company Takes Over Lumber Properties.

Weston, W. Va., June 20.—[Special.]—The Westwood Manufacturing Co. has been dissolved and its extensive holdings, including a mill in Weston, have been taken over by the Westwood Lumber & Manufacturing Co., which has also taken over the holdings and plants of the Fenwick Lumber Co. at Fenwick.

Directors of the new company include S. L. Richards, Mrs. Louise Richards, C. J. West, John Hailston, Jr., and June Ervin, all of Weston.

Western Company to Establish Baltimore Plant.

Announcement has been made by the Industrial Bureau of the Baltimore Association of Commerce that the Menasha Printing & Carton Co. of Menasha, Wis., has leased 42,000 square feet of floor space from the Canton Company at Colgate, near Baltimore, and will establish a plant for the manufacture of food containers, including oyster and ice cream pails and waxed cartons. Option has been taken on 40,000 feet additional.

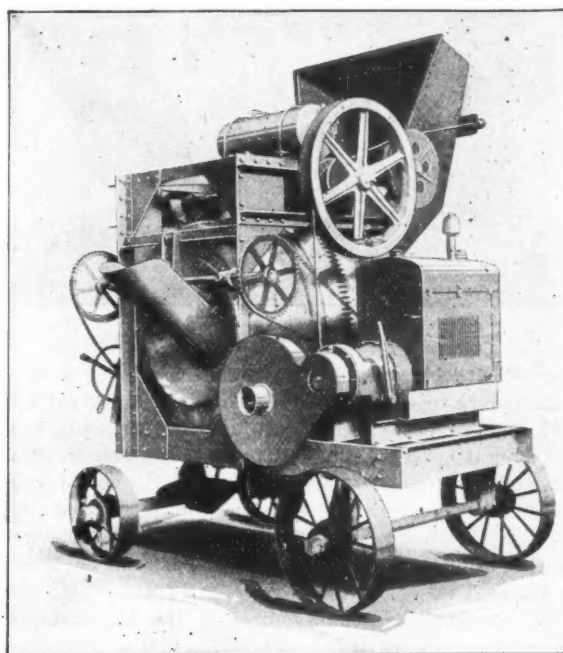
A complete printing plant will also be installed, including a three-color process for printing on cardboard. Operations will begin about July 15 with a force of 125 workers.

MECHANICAL

A New and Compact Concrete Mixer.

A new development of a non-tilting concrete mixer is shown in the accompanying illustration representing a machine built by the T. L. Smith Company of Milwaukee, Wis. In this mixer, which is designated as 14-S of the company's line, greater compactness of construction permits mounting on shorter trucks, which makes the machine lighter and greatly increases its portability.

The picture shows the new mixer as equipped with power loader, water tank and 15-horsepower four-cylinder Le Roi



THE MIXER AS MOUNTED AND EQUIPPED.

power unit. Strongly built gear guards protect the workmen and at the same time prevent falling concrete aggregate from dirtying and injuring the gears.

This machine is described by the builders as an ideal mixer for any construction job, whether large or small. It has a two-bag capacity and gives a daily production of more than 150 cubic yards.

A New Light-Weight Electric Hammer.

A new and lighter model of the Syntron electric hammer, which the manufacturers have called the "Type F," has recently appeared. It is similar to the two types already in extensive use by manufacturers, contractors, central stations and telephone men, but it weighs only nine pounds and is especially adaptable for some of the lighter forms of work, such as drilling holes up to one-half inch diameter, light chipping, hammering and vibrating.

The principle of this hammer is revolutionary in so far that it has only one moving part, a reciprocating piston which moves in synchronism with the alternations of the electric current. Hence, on 60-cycle current, it makes 3600 strokes against the head of the tool bit in a minute. For direct current a small rotary converter is furnished by the manufacturer at a small additional cost.

When the first hammers of this kind were sold, a little over a year ago, they met with a very favorable acceptance. The

two sizes already on the market are Types A and B, weighing 18 and 26 pounds, respectively, and capable of drilling one inch and one-half inch holes into hard concrete in one minute. The outfit is entirely portable, easily carried from place to place and can be attached to any electric-light socket. The absence of motors, compressors, tanks, gears and other cumbersome equipment makes its need felt wherever there is any



LIGHT-WEIGHT ELECTRIC HAMMER.

amount of drilling, chipping or hammering to be done. The manufacturers report that they have received a great number of letters from various users telling how efficiently the tool works, how it has saved its cost many times over by speeding up operations, and of its ready accessibility on all kinds of jobs. Another feature that has been brought out is that either one of the three types will consume no more current than the ordinary domestic electric flatiron, or less than $\frac{1}{2}$ K.W.

These hammers are manufactured by the National Electric Manufacturing Co. of Pittsburgh, Pa.

FOREIGN NEEDS

[The MANUFACTURERS RECORD receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Toys, Hardware, Etc.

J. LACARDA, Villegas 123, altos; Havana, Cuba.—Being interested in velocipedes, handcars, children's automobiles and toys of all kinds, and also in general hardware, would like to have addresses or catalogues of reliable manufacturers, especially of firms in position to consider proposals for representation in this country. Am acting as buyer for a responsible firm in this city, having been employed for the past five years with one of the largest hardware concerns of the United States, most of the time traveling in Cuba.

Agency Desired.

R. VERSTRAETEN L. TASNIER, Boulevard Adolphe Max 98, Brussels, Belgium.—We would like to get the agency in Belgium for a firm which is making machines for the manufacture of ropes, pack-thread, hemp, mats and straw mats; also for a manufacturer of material and implements for the manufacture of chicory, and for distilling, brewing and malt making, and also for material for grinding, crushing and pulverizing.

New Wholesaling Company in Japan.

KYODO KIKAI HANBAISHO, 28 Sanchoma, Honzatmoku-cho, Kyobashiku, Tokyo, Japan.—The Co-operative Machinery Stores, Ltd.: a joint stock company, has just been formed in Tokyo by leading machinery houses with the sole and exclusive aim to deal on wholesale and consignment basis. It does not handle retail business and restricts its field of activity to wholesaling chiefly among the members of the Tokyo Machinery and Hardware Dealers' Association. The officers are T. Tsukumoto, of Tsukumoto & Co., president; S. Noda, of Roku-Roku Shoten, Ltd., and K. Takahashi, of Takahashi

Shoten, vice-president. H. Okuda will be managing director. The business will include machine tools, workshop equipment, hand tools, steam and pneumatic fittings, packing and belting, track tools, general industrial supplies, and hoisting and conveying equipment.

Machinery Wanted.

HEINRICH SCHUBERT & Co., Berlin N-24, Artillerie Strasse 36a, Germany.—We are interested in making business connections with American concerns manufacturing metal and woodworking machinery and lathes, machinery for sheet iron, turning lathes (revolving), pumps, vises, files, chucks, drills, cutters, stocking dies, oil filters, fittings, technical novelties, wood pulleys, transmission parts, hangers, leather belting, carborundum wheels, polishing machines, copper and white metal. Samples are desired for showroom and for travelling salesmen.

Commendations, Kicks and Comments

A Source of Inspiration.

L. T. WELLS, County Agent LEE COUNTY FARM BUREAU, Opelika, Ark.—I am enclosing check for \$3.25 for which please send me the MANUFACTURERS RECORD for six months.

I don't like to miss a single issue, as there is inspiration in each one that is worth the price.

A Minister's Tribute.

REV. A. O. MOORE, Pastor First Baptist Church, Salisbury, N. C.—I am enclosing you check for \$4.20, which is to cover one copy of the Blue Book and also year subscription for the RECORD.

Let me again express my appreciation of the splendid work of the greatest journal of its kind in the United States.

As a minister I feel it is impossible to do without this splendid paper.

"Most Valuable and Interesting."

W. L. WILLIAMS, San Antonio, Medina Lake & Western Railroad Co., San Antonio, Tex.—I wish to say that I consider the MANUFACTURERS RECORD one of the most valuable and interesting publications issued, and I would not want to do without it. Wishing you every success for your great work and every credit for your open expressions. I expect to have a little valuable information for your issue in the very near future.

Commendation From Florida.

H. E. ROBINSON, Secretary Chamber of Commerce, West Palm Beach, Fla.—The directors of the West Palm Beach Chamber of Commerce, at the regular weekly meeting on Friday, May 16, unanimously authorized me to write you a letter of appreciation for the many kind statements which you made in regard to our work in procuring additional rail transportation, not only for West Palm Beach but for the entire lower central and east coast portion of the state.

Your editorial comments have been very valuable to us, and we want you to know that we fully and sincerely appreciate your courtesy.

The entire South, and particularly Florida, are deeply indebted to you for the untiring manner in which you have continually and effectively presented the resources and possibilities of the South in the columns of your publication.

May we again thank you for your interest and assure you of our appreciation.

A Suggestion in Regard to Muscle Shoals.

W. R. STUCK, President C. A. STUCK & SONS, Jonesboro, Ark.—I am enclosing my check herewith for \$10, for which you may move up the date on my paper for two years.

In this connection I wish to say that I enjoy reading the MANUFACTURERS RECORD very much. I believe that it is the best magazine that I know of of its kind.

I am especially interested in the position you take against Mr. Ford's purchase of Muscle Shoals. And I have always felt that if the government would select, or possibly a better way would be for the President to appoint, a committee of business men who are not politicians and who have made a success of their business, who are in a position to take hold of the Muscle Shoals electric plant, and allow them to complete it to a first-class, up-to-date power plant, then sell the power to cities and corporations, thereby perpetuating a revenue-bearing plant for the government and have it ready in case of emergency to utilize for war purposes it would be the best for our government and the people living in that vicinity.

In this way the plant could be made to pay for itself in the next twenty-five to fifty years. And an honorary committee or board appointed by the President would be glad to handle the affairs of the plant for nothing.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Arkansas—State Highway Comm., Little Rock, received low bids for 2 bridges as follows: Jasper Bridge, over north fork of Buffalo Creek, on Harrison-Russellville road, Newton County, Vincennes Bridge Co., Vincennes, Ind., \$28,722; Piney Creek Bridge, between Russellville and Clarksville, on Little Rock-Fort Smith Highway, Johnson County, St. Louis Structural Steel Co., Bank of Commerce Bldg., St. Louis, \$43,201.*

Ala., Pratt City—Birmingham-Southern R. R. Co., J. B. McIntyre, Ch. Engr., Fairfield, Ala., let contract to Smith Co., Birmingham, at \$40,000, for viaduct over their tracks, and Pratt-Ensley line at Jewish Cemetery.

Georgia—State Highway Dept., East Point, Ga., will receive bids July 2 to furnish material, labor, etc., for 7 bridges as follows: Jackson County, over Curry Creek on Jefferson Commerce road, Federal Aid Project No. 59, 2301 cu. yd. common and borrow excavation; 50,000 lbs. reinforcing steel; 1300 cu. yd. spandrel fill; E. N. Parker, Div. Engr.; Walker County, over Chattooga River on La Fayette-Calhoun road, Federal Aid Project No. 8-1-101, 33,922 lbs. reinforcing steel; E. M. Arnold, Div. Engr.; Rabun County, on Clayton-Hiwassee road, Federal Aid Project No. 391, 14,400 lbs. reinforcing steel; E. N. Parker, Div. Engr.; 4 timber bridges on Savannah-Darien-Brunswick road, Federal Aid Project No. 177, 486,171 cu. yd. common and borrow excavation; 44,153 lbs. reinforcing steel; E. B. Parker, Div. Engr.; W. R. Neel, State Highway Engr.

Georgia—State Highway Dept., East Point, will receive bids July 2 for 3 bridges as follows: Telfair and Jeff Davis Counties, over Ocmulgee River, near Lumber City, Federal Aid Project No. 210, creosoted timber floor gravel surfacing; 15,911 lbs. reinforcing steel in culverts; 100-ft. steel trusses, complete except floor; 208-ft. steel swing span, complete except floor; Clay County, Ga., Henry County, Ala., over Chattahoochee River, near Fort Gaines, Ga., Federal Aid Project No. 297, 103,366 lbs. reinforcing steel; structural steel spans, complete except floor, including furnishing but not erecting steel rail on concrete approaches; C. L. Rhodes, Div. Engr.; Bryan-Effingham Counties, on Savannah-Statesboro road, Federal Aid Project No. 207, 30-ft. steel I-Beam span, complete except floor; treated timber with gravel surfacing or heart cypress timber with 2-in. Tarvia surfacing; 30-ft. steel I-Beam span, treated timber with concrete floor; B. P. McWhorter, Div. Engr.; W. R. Neel, State Highway Engr.

Ga., Marietta—State Highway Dept., East Point, let contract to Converse Bridge & Steel Co., Chattanooga, Tenn., for concrete underpass on Atlanta-Marietta road in Cobb County.

Ga., Midville—State Highway Dept., East Point, Ga., let contract to Savannah Foundation Co., Savannah, for cypress bridge across

Ogeechee River at Midville, between Burke and Emanuel Counties.

Miss., Barlow—Copiah County, Board of Supvrs., will receive bids first week in July to build bridge over Foster Creek near Barlow.

Ga., Swainsboro—State Highway Dept., East Point, Ga., will build 2 bridges. Details under Road and Street Construction.*

Ky., Owensboro—Owensboro, Rockport & Chicago Ry. Co., Major T. H. Hazelrigg, Ch. Engr., Washington, plans building bridge 4.45 mi. up river from Owensboro between Owensboro and Rockport.

La., Baton Rouge—Details under Road and Street Construction.

Miss., Friar Point—Coahoma County Board of Supvrs. will receive bids July 9 to furnish material and construct 120-ft. creosoted pile timber bridge over Harris Bayou on New Africa road; plans, etc., from B. T. Collier, County Engr., Clarksdale.

Miss., Meridian—Lauderdale County, Board of Supvrs., plans building 5 concrete bridges over streams on recently paved highways.

Missouri—State Highway Dept., Jefferson City, let contracts for 11 bridges as follows: No. 208-D, Bollings County, over Drainage Ditch No. 108, on road from Marble Hill to Advance, H. H. Humphreys Construction Co., Fredericktown, \$15,583; Route 16, Sec. 71, Carter County, over Brushy Creek on road from Elsinore west, L. O. Kimball, Clear Lake, Iowa; No. 244-B, Cooper County, over Long Branch, on road from Kansas City to St. Louis, S. J. Groves & Sons, Minneapolis, Minn.; Route 4, Sec. 68, over stream, on road from Memphis, east, Pittsburg-Des Moines Steel Co., Des Moines, Iowa; Route 10, Sec. 32, Chariton County, over Middle Fork of Chariton River, on road from Salisbury, east, A. L. Cook, Ottawa, Kansas, \$9056; Route 51, Sec. 3A, Perry County, over Drainage Ditch, on road from Perryville to McBride, Wagner Bridge & Construction Co., St. Louis, Mo., \$13,401; Wayne County, 4 sections; Route 23, Sec. 8, over Cedar Creek on road from Sylva north and south, H. H. Humphreys Construction Co., \$7926; Route 34, Sec. 14, road from Solva east, over Little Bear Creek, H. H. Humphreys Construction Co.; over Black Bear Creek, to same contractor; over Polar Bear Creek, same contractor at \$4252; Sec. 32, over overflow of Middle Fork, Chariton River, on road from Salisbury, east, A. L. Cook.

Missouri—State Highway Dept., Jefferson City, Mo., received low bids for 14 bridges as follows: Route 13, Sec. 41, St. Clair County, over stream on road from Vista to Collins, C. L. Johnson, Warrensburg; Route 32, Sec. 31, St. Francois County, over Dry Branch, on road from Elvins to Bismarck, J. L. Moss, Webster Groves; Route 3, Sec. 20, Livingston County, 2 on road from Chillicothe south; over Overflow of Grand River and Shoal Creek, Pittsburg-Des Moines Steel Co., Des Moines, Iowa, \$26,864; Webster County, 2 on road from St. Louis to Springfield; No.

240-C, over Niangua Creek, C. F. Johnson & Sons, Buffalo, Mo., \$8831; 240-A, over Northview Branch, C. F. Johnson & Sons; Lawrence County, 2 on road from Monett to Springfield; Route 16, Sec. 17, over Honey Creek, Eastly Bros. & Hartley, Aurora, Mo., \$6509; Sec. 18, over Little Honey Creek, Eastly Bros. & Hartley, \$6479; Warren County, 2 on road from Kansas City to St. Louis; No. 236-B, over stream, C. P. O'Reilly & Co., St. Louis, \$6771; No. 236-C, over creek, Public Works Construction Co., St. Louis; Wayne County, 2 on road from Silva north and south, C. T. Fogle Construction Co., Jefferson City; Route 23, Sec. 20, over West Fork Creek, \$5420; Sec. 19, over Wolf Creek, \$6609; Route 13, Sec. 36, Henry County, on road from Deepwater to Lowry City; over Cooper Creek, M. E. Gilloz, Monett, \$9503; over stream, A. L. Cook, Ottawa, Kansas.*

Mo., Crane—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, let contract to List & Gifford Construction Co., 415 Rwy Exchange Bldg., Kansas City, Mo., for filling wooden trestles between Crane, Mo., and Yellville, Ark.

Mo., Licking—Texas County Court, Houston, plans building bridge at Mason Ford, 10 mi. west of Licking, on Piney River.

N. C., Asheboro—Randolph County let contract to Steel & Libby, Knoxville, Tenn., at \$9780 for concrete bridge over Uwharrie River, at Parker's Mill, 20-ft. roadway; dirt approach.*

Okla., Oklahoma City—City plans building 744-ft. steel bridge across Thirty-ninth bypass; concrete flooring; steel girders; B. M. Hart, City Engr.

S. C., Abbeville—State Highway Dept., Columbia, S. C., plans building Calhoun Highway Bridge over Savannah River between Abbeville and Elberton, Ga.

Tennessee—Dept. of Highways and Public Works, Nashville, let contracts for 21 bridges. Details under Road and Street Construction.

Tenn., Bogota—Dyer County Commrs., Dyersburg, will receive bids June 28 for 1500 lin. ft. steel bridge near Bogota; plans, etc., from L. O. Brayton, Dyersburg.

Tenn., Nashville—City and Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., will erect reinforced concrete viaduct across Chestnut St. tracks; estimated cost \$30,000, each to pay half; H. E. Howse, Mayor.

Tex., Dallas—Atchison, Topeka & Santa Fe Ry. Co., H. W. Wagner, Ch. Engr., Topeka, Kansas, plans building under-pass to eliminate grade crossing at Second Ave.

Tex., Georgetown—Williamson County will build 6 bridges and several culverts. Details under Road and Street Construction.

Tex., Houston—Harris County plans building concrete bridges on Alameda and East Montgomery roads, estimated cost \$50,000;

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Howe & Wise, County Engrs., First National Bank Bldg., Houston.

Tex., Saint Jo—North Texas Co. will build 750-ft. main span cable or steel bridge across Red River; piling and earth approach.*

Tex., San Antonio—City plans 5 new reinforced concrete and steel bridges as follows: S. Presa St., between College and Crockett, \$50,000; Fourth St., \$25,000; Martin St., \$25,000; S. Presa St., between Villita and Market, \$25,000; Market St., \$30,000; will sell bonds; I. Ewig, City Engr.

Tex., Simmons—State Highway Dept., Jefferson City, plans building bridge north of Simmons to replace bridge recently wrecked.

Va., Bristol—Southern Ry. Co., R. Hayes, Structural Engr., Washington, D. C., plans building concrete overhead bridge on Oak St., asphalt driveway; cost \$5600; half to be paid by city and half by railway company.

Canning and Packing Plants

Md., Cambridge—Spedden Packing Co., Inc., capital \$20,000, chartered by Howard P. Spedden, Geo. W. Woolford and Ivy L. Leonard.

Md., Cambridge—J. Rowland Stewart Co., Inc., capital \$30,000, chartered by J. Rowland Stewart, Geo. W. Woolford and John S. Skinner.

Md., Easton—Talbot Farms Co. incorporated by A. Sydney Cover, Jr., Wm. E. Withgott and J. R. Wheatley.

S. C., St. George—Walker S. Utsey, Pres., the Citizens Bank, interested in the erection of canning factory. (See Machinery Wanted—Canning Machinery.)

Clayworking Plants

Ala., Gadsden—Gadsden Coal & Clay Products Co. incorporated by D. N. Smith, W. B. Counts and others.

La., Lake Charles—Delatte & Lagrange let contract to Bonin & Dupuis, Lake Charles, to construct 90x250 ft. brick shed, brick foundation, frame structure, corrugated iron roof, with 12-lb. rails in drying tracks.*

Coal Mines and Coke Ovens

Tenn., Chattanooga—Marion Coal Co. increased capital from \$30,000 to \$100,000.

Va., Blacksburg—Kinzer Price Mountain Coal Co., Wirt Dunlap, Sec. (lately noted incorporated, capital \$20,000), will develop 130 acres coal land; daily output about 50 tons annually, will install boiler, hoister, mine cars and pumps. (See Machinery Wanted—Mining Equipment.)

W. Va., Bluefield—A. J. Stewart Coal Co., capital \$150,000, incorporated by A. J. Stewart, J. H. Hoge, R. L. Bailey.

Concrete and Cement Plants

Ala., Birmingham—Concrete Steel Co., Brown-Marx Bldg., reported to have plans for 2-story reinforced concrete fireproof building on Ave. E for office and engineering department; Wm. Piez, Mgr.

Md., Cumberland—Cumberland Concrete Co. incorporated by Thomas B. Lashley, W. Carl Richards, 116 Cedar Ave., Baltimore, and Jean Cobbey.

Cotton Compress and Gins

La., DeQuincy—DeQuincy Gin Co., Inc., capital \$7000, chartered with F. T. Smith, Pres.; H. W. Brown, Sec.

Okla., Davidson—Chickasha Cotton Oil Co. will erect cotton gin.

Tex., Avalon—Avalon Gin Co., capital \$20,000, incorporated by M. C. Giles, D. G. Swafford, C. W. Tapp.

Tex., Mission—Borden Gin Co., capital \$20,000, incorporated by M. H. Lowrie, O. V. Bridges, A. L. Bullis.

Tex., Sagerton—Farmers Gin Co., capital \$15,000, incorporated by F. W. Stegemoeller, O. L. Darden, E. D. Engleman.

Tex., Waco—Exporters & Traders Compress & Warehouse Co. increased capital from \$200,000 to \$300,000.

Drainage and Irrigation

Fla., Sarasota—The Palmer Corp. will drain 25,000 acres saw-grass land, reclaiming for subdivision.

Fla., Tampa—Tampa Bay Land Co. and the South Tampa Land Co. interested in the establishment of the South Tampa Farms Drainage Dist.; proposed drainage project embraces 16,577 acres land lying between Palm River and the Alafia River, extending east from Hillsborough Bay to the Riverview road; The McElroy Engineering Co., Engrs.

Okla., Marlow—Little Beaver Drainage Project No. 1, Box 38, will construct 7 mi. main canal with some minor laterals in Stephens County, for flood control, etc.; will use large dredge boat or two small drag line machines; invites prices on second-hand machines; address O. R. McKinney, State National Bank, Marlow. (See Machinery Wanted—Dredging Machines.)*

Electric Light and Power Plants

Ala., Andalusia—City Council granted franchise to River Falls Power Co., Andalusia, for distribution of power.

Ala., Bessemer—E. A. Yates, V. P. and General Mgr. of Alabama Power Co., Birmingham, Ala., is reported to expend \$500,000 in improvements at Bessemer and Leeds substation, insuring better service for lighting and power; improvements will consist of installation at Bessemer of large synchronous condenser, of 15,000 KVA, and one at Leeds, of 12,500 KVA, new building will be erected to house this equipment; also ten oil switches of latest improved design will be installed at Bessemer, construct ½ mi. of spur track; extension to water system, extend switching yards, etc.

Ala., Decatur—Alabama Public Service Comsn. granted permission to Alabama Power Co., E. A. Yates, Gen. Mgr., Birmingham, to construct 44,000-volt transmission line from Hapgood to Decatur, cost approximately \$500,000.

Ala., Heflin—Alabama Power Co., Birmingham, Ala., reported to extend power lines from Oxford to Heflin to assure operating power for proposed cotton mill.

Fla., Bradentown—Southern Utilities Co., T. D. Hayes, Local Mgr., will erect and equip power plant on Manatee River constructed in 2 units, 54x80 ft. with walls 49 ft. high, brick with stone trim, wire glass windows, automatic fire doors; will install two 308-H. P. Engemor steam boilers, fuel oil, and 1000-K. W. steam turbine generator as main unit; other unit equipped with 500-H. P. engine, 300-K. W. turbine generator; giving total capacity of 1500 K. W. as against present 500 K. W. capacity; cost of structure \$30,000.*

Fla., Miami Beach—Miami Beach Electric Co., will erect additional building at power plant; cost approximately \$75,000.

Fla., New Smyrna—City, Geo. J. Ott, Mgr., will call for bids for installation of new unit of 600-H. P. and one of 800-H. P. at electric light plant, doubling capacity of present plant.

Fla., Tampa—Details under Land Development.

Ga., Atlanta—Georgia Railway & Power Co. has asked permission of the Public Service Comsn. to issue \$3,000,000 of 30-yr., 6 per cent general mortgage gold bonds; proceeds to be used for completion of water power facilities in vicinity of Tugalo, Tallulah and Burton dams; following completion of new Terrora development work will begin on Nacoochee dam and power plant to be con-

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structed between Burton and Terrora on the Tallulah River.

Georgia — Washington Land Co., Atlanta, Ga., reported to have acquired from Hugh McRae Co. the property on Hatton Shoals situated partly in Anderson County, S. C., and Hart County, Ga.

La., Houma—City, Ernest D. Dupont, Mayor, votes July 15 on \$100,000 electric light and water works bonds.

S. C., Anderson — State Railroad Comsn. authorized Southern Public Utilities Co. to extend suburban power lines.

S. C., Fort Mill—Lee Co-operative Electric Light Line, chartered with B. M. Lee, Pres.; S. A. Lee, Sec.

S. C. Salley—Salley Light & Power Co., incorporated with H. O. Jones, Pres.; G. L. Kennedy, Sec.

Tenn., Carthage—Smith County Electric Co., G. B. Shanver, Mgr., will construct 20 miles, 3 phase, 11,000 volt electric line connecting Pleasant Shade, and Red Boiling Springs; have let contract for all materials.*

Tex., Dallas—Details under Land Developments.

Tex., El Paso—El Paso Electric Railway reported to construct addition to power plant, install turbine and other equipment.

Tex., Crawford — Details under Water Works.

Tex., New Braunfels—Comal Power Co., reported organized with W. B. Tuttle, Pres., Terrell Rd., San Antonio, Tex., to acquire hydro-electric power site on Guadalupe River.

Virginia — Appalachian Power Co., Virginia Railway & Power Co., Norfolk, Va., and some of the subsidiaries of the American Electric Power Co., Witherspoon Bldg., Philadelphia, Pa., are reported to be considering merger.

W. Va., Chelyavan — Chelyavan Electric Water & Ice Co. will construct electric line.

W. Va., Huntington—Details under Land Developments.

W. Va., Huntington—Virginia Power Co., J. E. Harsh, V. P.-Gen. Mgr., Charleston, reported to construct power line from Cabin Creek through Huntington to Portsmouth, 200,000-volt capacity; also reported to have acquired Portsmouth Public Service Corporation.

Flour, Feed and Meal Mills

Md., Salisbury — Eddington & Co., Inc., capital \$40,000, incorporated by Wm. T. Eddington, C. Jacob Bryan and Wm. E. Hutchinson.

Va., Bristol—Shankel Mill Co., Inc., capital \$15,000, incorporated with J. J. Shankel, Pres.; J. A. Shankel, Sec.

Foundry and Machine Plants

Fla., Miami—Interlox Septic Tank Manufacturing Co., capital \$25,000, incorporated with Luke G. Sresovich, Pres.; Charles F. R. Costes, Sec.

Fla., Orlando—Farm & Home Machinery Co. incorporated with E. W. Yandre, Pres.; E. E. Rhoades, Sec.

S. C., Spartanburg—Piedmont Iron Works, 377 Marion Ave. (lately noted incptd., capital \$10,000), has building, will install punch drill press, circular saw, air compressor, etc.*

Tenn., Chattanooga—Ross-Meehans Foundries, G. F. Meehan, Pres., Carter St., let following contracts for construction of electric steel foundry building: To the Converse Bridge & Steel Co., Anderson and Berkley St., Chattanooga, for steel structure; to the Detroit Steel Products Co., of Detroit, Mich., for steel sash; to the Pittsburgh Electric

Furnace Corp., Pittsburgh, Pa. for Moore electric furnace; to the Milwaukee Electric Crane & Manufacturing Co., Milwaukee, Wis. for cranes; to the Ingersoll-Rand Co., 11 Broadway, New York; sandblast and sandmixing machinery have not been awarded; construction work outside of the steel structure and setting of steel will be done by company's own forces.*

Tex., Dallas—W. A. Browning Machinery Co., 3025 Elm St., let contract to H. T. Appel to construct warehouse, shop and office building, on Exposition Ave., near Commerce St.; 300x50-ft. with an L 40x100 ft., brick, concrete floors, steel frame skylights, steel sash windows, sliding doors; cost of building \$32,000; Flint & Broad, Andrews Bldg., Archts.

Gas and Oil Enterprises

Fla., Seabreeze — Daytona Public Service Co., Magnolia Ave., Daytona, Fla., will construct 300,000-ft. gas holder, laying approximately 10,000 ft. of 10-in. main and 15,000 ft. of 6-in. main; will install at plant 2500 KW turbo-generator, with addition to ice plant increasing capacity from 50 to 100 tons daily.

Fla., Tampa—Details under Land Developments.

La., New Orleans—Standard Oil Co. let contract to Doullut & Williams, 816 Howard St., for alterations and repairs to building at S. Charles Jackson; E. Weil, Archt., Whitney Annex Bldg.; cost \$50,000.

Md., Baltimore—Thistle Pipe Line Operating Co., Calvert Bldg., capital \$12,500, incorporated by Geo. S. Newcomer, Douglas H. Rose, Leslie E. Mihm.

Md., Baltimore—Seaboard-Midland Petroleum Corp., Calvert Bldg., chartered by Geo. S. Newcomer, Douglas H. Rose, Leslie E. Mihm.

Okla., Blackwell—Flossmar Oil & Gas Co., capital \$112,000, incorporated by Harper Poling, Clark Denny and Francis Jehle.

Okla., Tulsa—Graham Oil Co., capital \$15,000, incorporated by J. Frank Graham, M. L. Graham and R. W. Smith, 1213 E. 5th St.

Okla., Tulsa—Hughes County Gas Co., capital \$50,000, incorporated by D. W. Cummings, O. E. Crews, 107 N. Nogales St., and Ida M. Johnston.

Tex., Dallas—Details under Land Developments.

Tex., Eastland—Munn Oil Co., capital \$90,000, incorporated by J. A. Nellis, W. B. Nellis and Minnie B. Nellis.

Tex., Fort Worth — Details under Land Developments.

Tex., Houston — Neilan Exploration Co., capital \$100,000, incorporated by P. A. Neilan, D. H. Reed and J. J. Kane.

Va., Roanoke — Roanoke Gas Light Co., 112 Church Ave., S. W., plans improvements to pipe lines, etc.

W. Va., Clarksburg—Rider Oil & Gas Co., capital \$200,000, incorporated by E. A. Rider, 419 S. Broad Oaks, C. E. Morton and A. J. Simmons, 740 Locust St.

W. Va., Huntington—Star Producing Co. increased capital from \$100,000 to \$250,000.

W. Va., Wheeling—Wheeling-Newport Oil & Gas Co. incorporated by K. A. Snodgrass, Max Chaplan, Henry N. Friedman.

Ice and Cold-Storage Plants

Fla., Miami—Refrigeration—Miami Fish & Ice Co., capital \$10,000, incorporated with John T. Wisdom, Pres.; Florence Crosland, Sec.

Fla., Miami — Seminole Ice Delivery, Inc., capital \$10,000, chartered with John T. Wisdom, Pres.; Florence Crosland, Sec.

Fla., Orlando — Florida Refrigeration Co. incorporated with A. J. Nye, Pres.; Sylvester Mayer, Sec.

Fla., Stuart — Stuart Ice Co. has begun construction of ice plant.

N. C., Swan Quarter—Plantation Industries, Inc., capital \$250,000, incorporated by C. B. Spencer, Swan Quarter; J. S. Mann, Middleton, N. C., and T. B. Zeverly, New Holland, N. C.

Va., Lynchburg—Peoples Ice Co., capital \$10,000, incorporated with B. W. Jackson, Pres., Krise Bldg; O. M. Jackson, Sec.

Va., Richlands—Richlands Ice Co., incorporated with A. R. Underwood, Pres.; J. T. Altizer, Sec.

W. Va., Huntington—Details under Land Developments.

Land Development

Ark., Little Rock—Southern Farms Co., Inc., lately noted incorporated with \$250,000 capital, John W. Dickinson, Pres., 2615 Gaines St.; A. L. Barber, V. P. and Sec., So. Trust Bldg.; will develop 3600 acres of land into individual 40 acre farms; 2400 acres ready for 1925 cultivation; will erect tenant houses and other improvements; J. A. Hartman and J. J. Burris, Dumas, Ark., General Contrs.*

Fla., Clearwater—Details under Road and Street Construction.

Fla., Avon Park—Scenic Groves Co., capital \$175,000, incorporated with John H. Harding, Pres.; W. M. Reck, Sec.; to acquire property Scenic Highlands Development Co. and develop citrus groves.

Fla., Bartow—Lake Enderly Groves, Inc., capital \$100,000, chartered with W. E. Lee, Pres.; L. P. Kirkland, Sec.

Fla., Boynton—A. C. Shepard has acquired and will develop 20 acres in ferns.

Fla., Davenport—Holly Hill Grove and Fruit Co. is having plans prepared by Wayne E. Stiles, 95 Oliver St., and John R. Van Kleek, Golf and Landscape Archts., both Boston, Mass., for 18 hole golf course and homesite.

Fla., Daytona—East Coast Investors, Inc., capital \$50,000, chartered with C. H. Gardiner, Pres.; E. E. Appel, Sec.

Fla., Deland—S. A. Irwin & Co., capital \$25,000, incorporated with Samuel A. Irwin, Pres.; C. L. Irwin, Sec.

Fla., Eau Gallie—Four Rivers Realty Co., capital \$10,000, incorporated with Wm. R. Roesch, Pres.; Wm. R. Roesch, Sec.

Fla., Gulfport—Boca Ceiga Transportation Co., Inc., capital \$20,000, incorporated with N. D. McKinney, Pres.; C. L. McKinney, Sec.

Fla., Hollywood—Boward Realty Co., capital \$100,000, incorporated with J. W. Young, Pres.; F. O. Van Deren, Sec.

Fla., Jacksonville—Paul Carson Realty Co., Mitchell Bldg., capital \$10,000, incorporated with Paul Carson, Pres.; Thomas H. Crawford, Sec., 2144 Boulevard St.

Fla., Jacksonville—Pasadena Realty Co., capital \$20,000, incorporated with G. A. Stephens, Pres.; D. H. Wadsworth, Sec.-Treas., 226 W. Union St.

Fla., Lakeland—Hardin Land & Investment Co., lately noted incorporated with \$10,000 capital, Dr. E. B. Hardin, Pres., will develop 25 acres for subdivision; install city water, streets and electric system.*

Fla., Melbourne—South Melbourne Homesites Co., incorporated with Wm. E. Sutherland, Pres.; Jos. Thompson, Sec.-Treas.

Fla., Miami—Acreage Sales Corp., capital \$10,000, chartered with Victor Hope, Pres.; Geneva C. Hope, Sec.-Treas.

Fla., Miami—Miami Palm Beach Land Co., capital \$10,000, incorporated with Fred C. Maurer, Pres.; Wm. L. Wood, Sec.

Fla., Okeechobee—Kissimmee Delta Farms Co., capital \$200,000, incorporated with W. R. Gary, Pres.; E. O. Douglas, Sec.

Fla., Miami—W. S. Maxwell, Sec. Miami Motor Club, has acquired tract of 53 acres of land on Key Largo having frontage on Barnes Sound and will develop for subdivision.

Fla., Ocala—City votes Aug. 5 on \$5000 park bonds. Address The Mayor.

Fla., Okeechobee—Okeechobee Citrus Grove Growers Assn., incorporated with W. W. Dunnecliff, Pres.; L. A. Hough, Sec.

Fla., Orlando—Newbegin-Bodie Supply Co., capital \$25,000, incorporated with Geo. W. Newbegin, Pres.; G. M. Douglas, Sec.

Fla., Palm Beach—William Dietsch, Inc., capital \$50,000, chartered with Wm. Deitsch, Pres.; Geo. W. Coleman, Sec.

Fla., Sarasota—Crescent Beach Development Co., capital \$300,000, incorporated with O. C. Maner, Pres.; F. R. Mercer, Sec.

Fla., Sarasota—Chas. R. Tyson of Lebanon, Tenn., has acquired 40-acre site and will develop for homesite.

Fla., St. Petersburg—The St. Petersburg Co., capital \$10,000, incorporated with J. Kennedy Block, Pres.; O. C. Greene, Sec.

Fla., St. Petersburg—South Florida Co., capital \$10,000, incorporated with J. Kennedy Block, Pres.; O. C. Greene, Sec.

Fla., Stuart—The Roat Concern, Inc., chartered with Wm. H. Roat, Pres.; Warner B. Tilton, Sec.

Fla., Tampa—White Stage Line Co., incorporated with M. J. Whiteson, Pres.; Richard Harte, Sec.

Fla., Tampa—City & Suburban Realty Co., lately noted incorporated with \$50,000 capital, with D. E. Knechtel, Pres.; W. R. Setzler, Sec., will develop 100 acres for residential site; will install water, sewers, sidewalks, gas, electricity, asphalt block paved streets, etc.; cost \$123,950.*

Fla., Tampa—Long Realty and Investment Co., incorporated with H. T. Lykes, Pres.; K. I. McKay, Sec.

Fla., Tampa—Brennan & Co., capital \$40,000, incorporated with Maxwell M. Brennan, Pres.; Wm. S. Creevey, Sec.

Fla., West Palm Beach—South Miramar Co., capital \$25,000, incorporated with Jerome E. Wideman, Pres.; Robert R. Rhudy, Sec.

Fla., West Palm Beach—Downey Realty Co., capital \$50,000, incorporated with James Downey, Pres.; Daniel Downey, Sec.

Fla., West Palm Beach—McDonald-Ware Co., capital \$25,000, incorporated with J. B. McDonald, Pres.; J. M. McDonald, Sec.

Fla., West Palm Beach—The Mulford Co., capital \$25,000, incorporated with B. W. Mulford, Pres.; M. E. Chappell, Sec.

Fla., West Palm Beach—The Palm Beach Realty & Investment Co., capital \$25,000, incorporated with J. F. Wilkinson, Pres.; Gordon North, Sec.

Fla., West Palm Beach—Florida Land & Development Co. has been incorporated in Maryland with capital of \$16,000,000 by R. Parks Jones, Wm. Tyler Spencer, 3809 Bonner Rd., and Paul Snyder, all of Baltimore, Md.; company was noted in issue of May 22 to purchase 150,000 acres of land along right of way of proposed new railway between West Palm Beach and Coleman.*

Ga., Savannah—Henry C. Walthour will construct 18 hole golf course on 110 acres of land.

Ky., Ashland—Pitkin & Mott, Columbus, O. landscape architects are planning 80 acre tract development.

Ky., Louisville—Campbell Realty Co., capital \$39,000, incorporated by John B. Campbell, 245 S. Hite St., Barney J. and Wm. B. Campbell.

Ky., Louisville—Louisville Country Club, River Rd., considering construction of two 18-hole golf course; Walter J. Travis, Golf Archt.

Maryland—Herald Harbor, Edward S. Hine, Director of Sales, 1313 New York Ave., Washington, D. C., is proceeding with development on Severn River; is constructing baseball park, tennis courts; will erect dock pier, public garage, dance hall, gas station, stores, etc.

Md., Baltimore—Roland Park-Homeland Co., controlled by Roland Park Co., 332 N. Charles St., has acquired and will develop tract of 300 acres on Charles street avenue.

Md., Baltimore—Farm & Suburban Realty Co. increased capital to \$50,000.

Md., Baltimore—Realty Sales Corp., 2407 Brookfield Ave., chartered by Murray Emanuel, Wm. I. Wolf and Grace Wolf.

Md., Baltimore—New Park Realty Co., 29 E. Lexington St., capital \$25,000, incorporated by Simon Miller, Leah Miller and Harry F. Kellman.

Md., Baltimore—Broad Acres Building Corp., 563 Calvert Bldg., capital \$10,000 incorporated by Simon Rief, Herman Samburg, Joseph Allen.

Md., Baltimore—Wm. Martien & Co., Inc., Lexington Bldg., capital \$250,000, incorporated by James Carey Martien, Octavius W. Clark, Wm. F. Bensing

Md., Baltimore—Hanes Improvement Co., 606 Munsey Bldg., incorporated by J. Kemp Bartlett, U. S. F. & G. Bldg., J. Robert Bartlett and Carl R. McKenrick.

Md., Baltimore—Wyman Park Improvement Association, Inc., Huntington & 27th Sts., incorporated by Henry V. Burns, Frank K. Dashiell and Harvey R. Baker.

Md., Baltimore—Cub Hill Land & Investment Corp., 21 S. Gay St., capital \$50,000, incorporated by Frank D. Graham, 102 Roland Ave., Albert D. and Margaret H. Graham.

Md., Baltimore—Harford Corporation, 903 Fidelity Building, incorporated by Harry A. Kohlerman, Hugh A. Norman and Leo A. Schneider, Fidelity Bldg.

Md., Baltimore—Mulkern Realty Co., 310 W. Fayette St., capital \$25,000, incorporated by James A. Mulkern, Martin J. McGuire, Joseph C. Deegan.

Md., Baltimore—Brighton Bay Corp., 1010 Keyser Bldg., incorporated by Fannie Barris, Thelma Feick, Brodnax Cameron.

Md., Baltimore—Land Record Building Assn., Inc., 7 St. Paul St., capital \$650,000, chartered by Robt. Seff, Harry B. Hasch, John N. Miller.

Md., Baltimore—Motor Building Co., 414 N. Calvert St., capital \$150,000, incorporated by Walton B. Booker, E. L. Russell, Richard G. Hoblitzell.

Md., Denton—Denton Land Co. incorporated by Harry L. Cooper, Union Trust Bldg., Baltimore; Ernest G. Cooper and Thomas R. Green.

Mo., St. Louis—Levin-Diesel Realty Co., capital \$40,000, incorporated by Louis C. Diesel, 2001 Cherokee St., Myer Levin and others.

N. C., Columbia—Columbia Real Estate Co., capital \$25,000, incorporated by W. H. A. Stallings of Edenton, N. C.; W. H. Owens and D. B. Dunbar, both Columbia.

N. C., Salisbury—Lee Mahaley has retained E. S. Draper, Landscape Archt. and Engr., 11 E. Fifth St., Charlotte, to make surveys

and plans for residential development of 135-acre tract adjacent to Country Club.

Okla., Ketchum—Craig County Vineyard Co., capital \$10,000, incorporated by J. B. Hallum, G. A. Coker both of Ketchum, and M. L. Holderman of Vinita, Okla.

S. C., Aiken—Kalmia Co., capital \$25,000, incorporated with G. Y. Macmurray, Pres.; Eulalie Salley, Sec.

S. C., Charleston—Wappoo Development Co., capital \$15,000, incorporated with H. J. O'Neill, Pres., 177 Tradd St.; C. L. Vann, Sec., Peoples Bldg.

S. C., Greenville—Central Y. M. C. A., E. Coffee St., T. C. Gower, will develop 425 acres of land on Green River Highway for permanent camp.

S. C., Spartanburg—R. H. Hines, W. S. Tuck and associates interested in development of subdivision.

Tenn., Chattanooga—Hillsboro Realty & Development Co., capital \$25,000, incorporated by J. M. Payne, Hill Top St., F. H. Morgan, 1207 Lyerly St., M. A. Fleming.

Tenn., Chattanooga—Highland Cemetery, capital \$15,000, incorporated by J. F. Trimball, C. H. Paterson, 518 E. 8th St., J. C. Tadley, 430½ E. 9th St.

Tex., Dallas—Sam G. Hines & Co., Kirby Bldg., will develop Parks Estates for subdivision; will install streets, ornamental lighting system, sewers, water and gas.

Tex., Fort Worth—Meadow Brook Country Club, 2207 F. and M. Bank Bldg., lately noted incorporated with \$50,000 capital; H. L. Wheeler, Pres., E. K. Cannon, Sec., will develop 130 acres of land for 18-hole golf course; install gas, septic tank, 500-ft. deep water well; Geo. Scott, 2016 Fairmont Ave., Constr. Engr.*

Va., Norfolk—Norfolk Country Club, A. B. Schwarzkopf, Pres., 609 Shirley Ave. has acquired 120 acres on Talbot Rd. and will develop for 18-hole golf course.

W. Va., Beckley—Fayette Street Development Co., capital \$100,000, incorporated Joe L. Smith, Herbert Stansbury, C. M. Lilly.

W. Va., Charleston—Lowenstein Realty Co. increased capital from \$200,000 to \$400,000.

W. Va., Huntington—Square Deal Real Estate & Investment Co., capital \$50,000, incorporated by Dr. A. S. Adams, 1622½ 8th Ave.; R. H. Woodson and others.

W. Va., Huntington—Bellemont Improvement Co., lately noted incorporated with \$150,000 capital, Harry S. Irons, Pres.; Robinson-Pritchard Bldg.; J. H. Lewis, Sec., 1st National Bank Bldg., will develop 62 acres for residences; will install street grading, water, sewer, gas and lights; Smith & Barnett, Const. Engr.; P. P. Moller, Landscape Archt.*

W. Va., Welch—North Welch Land Co., capital \$50,000, incorporated by E. W. Culen, F. W. Pendleton, O. B. Sameth.

Lumber Enterprises

Ala., Stevenson—Gathan Henniger reported as erecting planing mill.

Ark., Little Rock—Boyd-Cox Lumber Co., capital \$25,000, incorporated with J. T. Boyd, Pres.; A. B. Cox, Sec.-Treas., 2315 Chester St.

Ark., Norfolk—W. D. Torrence Lumber & Timber Co. has acquired tract of hardwood timber on White River and is installing mill.

Fla., Coral Gables—Coral Gables Lumber & Supply Co., capital \$250,000, incorporated with Adhemar Renuart, Pres.; Dennis Renuart, Sec.

Fla., Haines City—Gateway Lumber & Supply Co., capital \$100,000, incorporated with J. P. McWilliams, Pres.; E. G. McWilliams, Sec.

Fla., Jacksonville—Putnam Lumber Co., J. H. Hecker, Supt., will rebuild kilns at the Ortega plant; burned at loss of \$15,000.

Fla., Lake City—Tal Young Lumber Co., capital \$50,000, incorporated with T. C. Young, Pres.; Myrian W. Young, Sec.-Treas.

Fla., Miami—Jones-Young Co., capital \$50,000, incorporated with C. C. Jones, Pres.; Geo. F. Young, Sec.

Fla., Tallahassee—West Florida Lumber Co., capital \$600,000, incorporated with W. B. Harbesch, Pres.; Walter J. Gex, Sec.

Ga., Blakely—Blakely Hardwood Lumber Co. is rebuilding burned planing mill.

Ky., Camp Knox—Camp Knox Lumber Co., capital \$71,000, incorporated by O. O. Clark, E. L. Craig and Otto J. Leheck.

La., Shreveport—Southland Lumber Co., Inc., E. B. Fitzgerald, Pres., 4035 Mansfield road (lately noted inceptd., capital \$150,000), let contract to Paul Anger of Beaumont, Tex., to erect planing mill, steam dry kilns and sheds, cost \$11,000; install \$50,000 equipment, including edger, trimmer, planers, band re-saw; furnished by American Machine Co., Rochester, N. Y.; National Dry Kiln Co., Indianapolis, Ind., and Casey-Hedges Boiler Works, Chattanooga, Tenn.; monthly output 1,000,000 ft. lumber and mouldings; J. P. Annan, Archt., Shreveport, La.*

Miss., Hazlehurst—Case Lumber Co. will erect \$100,000 saw mill in Copiah County; has 40 acres land for plant, tenant houses and tracks.*

Miss., Sumrall—J. J. Newman Lumber Co. will repair building, damaged by storm.

S. C., Bamberg—Midway Lumber Co. increased capital to \$10,000; changed name from Midway Lath & Heading Co.

S. C., Charleston—James D. Harvey & Co., capital \$50,000, incorporated with J. D. Harvey, Pres., 6 Water St.; L. L. Harvey, Sec.

Va., Norfolk—Eure Logging Co., Inc., capital \$10,000, chartered with John A. Arringdale, Pres.; John A. Arringdale, Jr., Sec., both Easton; H. T. Wrightson, Norfolk.

W. Va., Elkhurst—Beechy Lumber Co., capital \$25,000, incorporated by I. J. Davis, of Jane Lew, W. Va.; J. L. Fisher and J. H. Hutchinson both of Sutton, W. Va.

W. Va., Weston—Westwood Lumber & Manufacturing Co., S. L. Richards, Pres., has acquired holdings of the Westwood Manufacturing Co., including mill and extensive holdings; will also consolidate holdings of the Fenwick Lumber Co. of Fenwick, W. Va.; will continue existing business.

Mining

Ala., Sheffield—Alabama Bauxite Co., Inc. (lately noted inceptd., capital \$10,000), organized with J. L. Andrews, Pres.; W. S. Hatch, Sec.-Treas., holding company for bauxite ore lands, has from 600 to 800 acres.

Md., Baltimore—Capital Mining Corp., 333 Equitable Bldg., capital \$250,000, incorporated by Hilary W. Gans, E. Milton Altfeld and Stanley K. Harman.

Tex., Corsicana—Corsicana Mining Co., 119 W. Collin St. (lately noted inceptd., capital \$100,000), organized with J. M. Hughes, Pres.; W. M. Huggins, Sec.-Treas. and Gen. Mgr.; has 25 acres mining land; has begun development.*

Va., Lynchburg—Lynchburg Stone Co., capital \$10,000, incorporated with C. G. Loving Pres.; W. W. Lloyd, Sec.

Va., Norfolk—Pilot Mining Syndicate, Inc., increased capital from \$25,000 to \$50,000.

Miscellaneous Construction

Fla., St. Petersburg—Dredging, etc.—Col. Gilbert A. Youngberg opened bids for dredging in Boca Ceiga Bay and construction of jetties; Tampa Sand & Shell Co. of Tampa were only bidders; approximately 5000 cu. yds. of rock is needed for jetties; material to be removed estimated at 22,000 cu. yds. soft material and 12,000 cu. yds. rock to be dredged.*

Ga., Savannah—Dredging—Globe Dredging Co., Savannah Bank & Trust Building, Savannah, has contract for dredging in Shipyard Creek at site of Gulf Refining Co.'s plant; will dredge channel from depth of 12 ft. to 35 ft.

La., Gretna—Canals, etc.—Fourth Jefferson Parish Drainage Dist. will receive bids July 1 for construction of 50 ml. drainage canals and 16 ml. of protection levees located in Sub-drainage Dist. No. 3; work also includes construction of four pumping units near Lake Ponchartrain; has \$1,250,000 available.

Miss., Greenwood—Wading Pool—City will construct wading pool in new city park; 60x30 ft.; concrete. Address The Mayor.

Mo., Nevada—Subway—J. J. Lindley, Mayor, will construct railway subway yard on E. Walnut St.; voted \$100,000 bonds.*

Mo., St. Louis—Subway—Board of Aldermen contemplate voting on bonds for construction of subway from Eighteenth to the levee and from Market St. to Washington Ave.

S. C., Greenville—Swimming Pool—Park and Tree Comsn. of City Council, J. A. McPherson, contemplates building swimming pool.

Tex., Edinburg—Flood Control—Hidalgo County Comms. voted \$1,260,000 bonds for flood, prevention and control; plans constructing earth and concrete levees, etc.*

Tex., Galveston—Dredging—Gulf Fisheries Co., New York, let contract to Capt J. E. Peterson, Galveston, to dredge slip at marine ways on Pelican Spit; company also plans to equip vessels with radio receiving apparatus, etc.

Tex., Houston—Channel—Navigation Commission has \$1,400,000 available for deepening and widening channel to uniform depth of 30 ft., work to be done within the next year.

Tex., Houston—Sheds, etc.—Port Consn. let contract to Don Hall, 522 Cotton Exchange Bldg., Houston, at \$498,156.30 to construct municipal sheds at turning basin; contract includes sheds for piers Nos. 11, 12 and 13 and completion of open wharf No. 10; two of the warehouses will be 480x150 ft. and one 460x150 ft., four tracks at rear of each dock and two on the wharf, buildings to be equipped with modern fire apparatus and 100,000 gal. special water supply tank will be installed; D. M. Harwood in charge of work.*

000, incorporated with J. L. Wilkinson, Pres.-Gen. Mgr.; Gordon North, Sec.-Treas.

Tex., New Braunfels—Heating Plant—Comal County, Carl Roeper, Judge, will receive bids June 28 for remodeling heating system in County Courthouse.

W. Va., Huntington—Memorial Arch.—Cabell County Memorial Assn., R. L. Archer, Chrmn., 1505 Sixth Ave., plans erecting \$15,000 memorial arch, 38x48 ft.; Meanor & Handloser, Archts.

Miscellaneous Enterprises

Ala., Wylam, Sta. Ensley—The Steel Cities Chemical Co. is expending \$50,000 on repairs and making changes in process; J. A. Calhoun, Chemical Engr.

Ark., Little Rock—Laundry—J. H. Leveck & Son will erect \$32,000 laundry, 1-story, brick construction.

Ark., McGehee—McGehee Ice Co. is building \$15,000 ice cream factory on First St.

Fla., Daytona—Paving Materials—Tunley Corp., has acquired 45 acres land, will manufacture paving materials.

Fla., Delray—Delray Hotel Corp., capital \$150,000, chartered with Albert T. Repp, Pres.; A. G. Evans, Sec.

Fla., Fort Pierce—Sunrise City Laundry, capital \$20,000, incorporated with C. C.

Fla., Jacksonville—Royer Rubber Patch Co., Inc., capital \$10,000, chartered with W. G. Seals, 45 W. 7th St., Pres.; D. B. Vincent, 1425 Goodwin, Sec.

Fla., Jacksonville—Contractors Supply Co., capital \$20,000, incorporated with H. M. Bankhead, Pres.; Gary W. Alexander, Sec., Atlantic National Bank Bldg.

Fla., Jacksonville—American Electric Supply Co., capital \$25,000, incorporated with A. L. Palmer, Pres., 510 Main St.; B. V. Palmer, Sec.

Fla., Key West—Aquarium—Exchange Club plans constructing concrete aquarium at foot of Front St.

Fla., Lakeland—Lakeland Evening News, capital \$100,000, organized with Chas. G. Mullen, Gen. Mgr., will establish new paper. Feigel, Pres.; G. R. Lord, Sec.-Treas.

Fla., Miami—Peoples Milk and Ice Cream Co. let contract to Dade Refrigerating and Engineering Co., Miami for Baker refrigerating and ice making machinery.

Fla., Miami—Grocers' Baking Co. let contract to Willis Construction Co., at \$75,000, to erect 2-story, 120x85 ft. building at N. E. Twenty-second St., concrete and hollow block construction; J. G. Gault, Archt.*

Fla., Miami—Orange State Oil Co., capital \$50,000, incorporated with E. N. Belcher, Pres.; C. B. Chinn, Sec.

Fla., Miami—The Miamian Hotel Co., capital \$500,000, incorporated with A. O. Yearlan, Pres.; L. A. Seaman, Sec.

Fla., Miami—Contracting—Temple Court Co., capital \$225,000, incorporated with A. B. Vance, Pres.; Leta McGregord, Sec.

Fla., Miami—Emerson Advertising Service, capital \$15,000, incorporated with Chas. S. Emerson, Pres.; Spahr Houriliand, Sec.

Fla., Miami—Miami Candy Co., capital \$25,000, incorporated with T. J. Golden, Pres.; O. E. Smith, Sec.

Fla., Pablo Beach, Jacksonville—Pablo Beach Hotel Co., capital \$230,000, incorporated with Gene Zapf, Pres.; L. A. Usina, Sec., 153 Davis St., South Jacksonville.

Fla., Quincy—I'm-A-Tampa Cigar Co., capital \$10,000, incorporated with E. J. McFarlin, Pres.; J. L. McFarlin, Jr., Sec.

Fla., Stuart—Pelican Hotel Co., capital \$100,000, incorporated with John E. Taylor, Pres.; Gerald J. O'Reilly, Sec.

Fla., St. Petersburg—Art Tile Co., Inc., temporary office 200 N. Fifteenth St., capital \$25,000, incorporated with C. S. Moss, Pres.; W. E. Wakeman, Sec.-Treas.; manufacture Spanish and hand-made tile.

Fla., St. Petersburg—Gulf Hotel Co., capital \$500,000, incorporated with Wm. Muir, Pres.; James R. Bussey, Sec.

Fla., Tampa—Eli Witt Tobacco Co., capital \$25,000, incorporated with John M. Carlisle, Pres.; L. M. Leonard, Sec.

Fla., Winter Haven—Winter Haven Laundry Co., Inc., South Sixth St. (lately noted inceptd., capital \$50,000), let contract to Haigler & McCalla, Winter Haven, for 60x110-ft. building, brick and tile, built-up roof; install \$25,000 equipment, purchased from The American Laundry Machinery Co., Cincinnati, Ohio.*

Ga., Atlanta—New South Bakery, 45 W. Glenn St., will erect \$10,000 addition to present plant at 45 W. Glenn St.

Ky., Lexington—Southern Plumbing Co., capital \$10,000, incorporated by H. J. Frantz, L. W. Bubbs, J. H. Roache.

Ky., Liberty — Midland Engineering Co., capital \$50,000, incorporated by Less Combest, W. C. Cundiff and Jackson Morris.

Ky., Louisville—Yellow Drive-it-Yourself, capital \$50,000, incorporated by L. T. Miles, L. J. Hanna, Audubon Park, M. W. Norwaad.

La., New Orleans—Advertising—Run-Your-Own Sales System incorporated by Walter J. Barrett, Pres., 1413 Carondelet Bldg., Baker Thomas, Sec.

La., New Orleans—Keep Kleen Manufacturing Co., \$15,000 capital, incorporated with Frank X. Zilker, Pres., 600 Maison Blanche Bldg.; Frank E. Rainold, Sec., 1435 Henry Clay Ave.

Md., Baltimore—Menasha Printing & Carton Co., Menasha, Wis., has leased 42,000 sq. ft. floor space from the Canton Co.'s industrial units at Colgate, with option on 40,000 additional feet; will manufacture food containers, including oyster and ice cream pails and cartons; Meikle & Wood, 201 S. Charles St., distributors for Southeastern section.

Md., Baltimore—Rock Hall & Baltimore Transportation Co., 1213 Fidelity Bldg., incorporated by J. Marsh Matthews, Ernest S. Romoser, and Ida E. Hamey.

Md., Baltimore—Sonora Music Publishing Co., 627 N. Fremont Ave., capital \$100,000, incorporated by Charles Parquet, Milton Dashiell and Geo. L. Pernoff.

Md., Baltimore — Arthur Manufacturing Co., Inc., 305 W. Redwood St., chartered with Wm. F. Danzenbaker, Nellie D. Watts and Biscoe L. Gray, Munsey Bldg.; metal products.

Md., Baltimore — Bay Shore-Brighton Excursion Co., 110 E. Lexington St., capital \$25,000, incorporated by Daniel J. Meyler, Charles Jackson and Arthur R. Padget, 110 E. Lexington St.; steamship line.

Md., Baltimore—Eclipse Laundry Co., 38 N. Curley St., capital \$100,000, incorporated by Geo. G. Phifer, Clarence Soper and Rob. E. Lee Young, 3 E. Lexington St.

Md., Baltimore — Florist—Mary Johnston, Inc., 223 Madison St., incorporated by Wm. J. Johnston, 215 W. Madison St.; Mary Johnston and Isabel J. DeMuth.

Md., Baltimore—Mason Sanitary Cap Co., Inc., 721 Equitable Bldg., capital \$300,000, chartered by Alexander L. Straus, Geo. H. Kispert and Jos. J. Pear, 831 Brooks Lane.

Md., Baltimore—Public Multigraphing Co., Inc., 1301 Munsey Bldg., capital \$10,000; incorporated by Lewis A. Elliott, Munsey Bldg.; J. Wm. Mills, Jr., and Geo. N. Weaver.

Md., Baltimore — United Advertising & Sales Co., 205 W. Lombard St., incorporated by J. Charles Fried, N. G. Schwartz and Louis Kahn, 913 W. North Ave.

Md., Baltimore—Mechanical Specialties—J. E. Perkins & Co., 113 Franklin St., capital \$10,000, incorporated by Joseph E. Perkins, Geo. V. Freaner and Chapin A. Ferguson, 213 St. Paul Pl.

Md., Baltimore—Federal Funeral Supply Co., 1724 W. North Ave., capital \$25,000 incorporated by Wm. E. Tickner, Charles M. Tickner and David G. Douglas.

Md., Chesapeake Beach—Dodgem Amusement Co. incorporated by John M. Rector, John E. McDonald and Fred Mayer, 5311 Hamlin Ave., Baltimore.

Md., Frederick—Amusement Park—Walter Decker, Inc., capital \$25,000, chartered by

Walter Decker, Leo Weinberg and H. Clay Evans.

Md., Salisbury—Builders Supplies—Cooper Corporation, capital \$25,000, incorporated with Mark Cooper, Pres.; L. W. Cooper, Sec.

Md., Silver Hill—Contracting—Able Homes Building Co., capital \$25,000, incorporated by Frank E. Bell, D. A. Stansbury and John Collins.

Miss., Natchez—Ferry—City, L. A. Whittington, Mayor has \$75,000 available for purchase of municipal ferry facilities.

Mo., Kansas City—Publishing—Young Advertising Consultation and Service Co. incorporated by J. O. Young, Hotel Broadlands; G. V. Young, Edw. J. Surgine.

Mo., Kansas City—American Maintenance & Equipment Co. incorporated by Charles M. Kennedy, William B. Bostian, 331 Scarritt Bldg., and Bernard L. Reilly.

Mo., Springfield—Davis Candy Co., J. F. Davis, 212 N. Jefferson Ave., will erect candy plant on Boonville Ave.; 2 stories and basement; 100x54 ft.; brick, stone and concrete; cost \$40,000; Thomas Carter, Contr.; Heck-enlively and Marks, Architects.

Mo., St. Louis—James T. Addis Contracting Co. incorporated by James T. Addis, 3924 Juniata St.; B. P. Addis and D. M. Hollingsworth.

Mo., St. Louis—Grin Soda Water & Ice Cream Co., incorporated by Harvey A. Tucker, 2220 Market St.; Earl R. Livingston, A. L. England.

Mo., St. Louis—Highlands Dairy Farms Co., 4816 Delmar Blvd., let contract to Kremer & Voitol Construction Co., Century Bldg., St. Louis, for construction of dairy station.

Mo., St. Louis—Best Pulley Manufacturing Co., capital \$25,000, incorporated by Herman Cohen, 6212 Waterman St.; Abraham Wolfe, 19 Princeton Ave., and others.

Mo., St. Louis—Victor Chemical Works incorporated by August Kochs, Pres.; Wm. D. Webster, Sec.

Mo., St. Louis—Casoid Co., capital \$500,000, incorporated by Frank J. Mumm, Bernard J. Mumm both of St. Paul, Minn., G. V. Brecht, St. Louis.

Mo., St. Louis—Emile Frei Art Glass Co. increased capital from \$25,000 to \$125,000.

Mo., St. Louis—James T. Addis Contracting Co., incorporated by J. T. Addis, 3924 Juniata St., D. M. Hollingsworth, B. P. Addis.

Mo., St. Louis—St. Louis Bakers Compressed Yeast Co., 1310 S. 18th St. increased capital from \$10,000 to \$15,000.

Mo., St. Louis—Scholl and Hospes Refining Co., capital \$30,000, incorporated by Frank O. Scholl, 3936 Cleveland Ave., Richard Hospes, 3016 Henrietta St. and others.

N. C. Canton—Champion Fibre Co. Reuben Robertson, Pres., reported to construct additional unit to double capacity of finishing plant; wire from the company states they have closed contract with Aberthaw Construction Co., Boston and Atlanta, Ga., for finishing plant, reinforced concrete with brick curtain wall, 2 story and basement, approximately 132x200 ft., estimated cost \$700,000; H. S. Taylor, Archt., Dayton, Ohio; practically all material for building as well as machinery already purchased, completion October 1; building will provide facilities for finishing 100 tons daily output of fine bond book and kraft papers made on machine now running and second machine to be installed in building now under construction.

N. C., Charlotte—Charlotte Duco Finishing Co., capital \$100,000, incorporated by John L. Dabbs, 232 W. 1st St., F. W. Macrae and A. L. Randolph.

N. C., Charlotte—Southern Baking Co., capital \$20,000,000, Harry D. Tipton, Pres., New York, organized with Herbert O. Miller, V. P.-Gen. Mgr.; F. O. Stone, V. P., Highland Ave., Atlanta, has taken over plant of the Carolina Baking Co.; will also establish bakeries in other cities.

N. C., Durham—Durham Dry Cleaning Co., capital \$15,000, incorporated by W. M. Eakes, Durham; C. W. Angle, 130 Smith St., Greensboro.

N. C., Gastonia—Gastonia Building Corporation, organized with R. B. Bawbbington, Pres.; J. S. Love, Sec.

N. C., Greensboro—Justice Manufacturing Co., C. N. Justice, Pres., 200 Forest Ave., changed name from Circlewove Products Co.; has doubled capacity of mop manufacturing plant.

N. C., Greensboro—Joseph J. Stone & Co., 110 E. Sycamore St., let contract to M. L. Holliday to construct plant at Cavie and Hughes St., cost of building and equipment \$75,000; 2 stories and basement, 70x107 ft., reinforced concrete, roof of mill construction and asphalt, variegated brick facing with architectural terra cotta trimmings, all floors will be finished with mastermix; skylights in saw tooth roof; will install freight and passenger elevators; R. James Hughes, Archt., American Bank Building.

N. C., Kinston—Liggett & Myers Tobacco Co. reported to erect plant or storage house.

N. C., Winston-Salem — Ago Construction Co., capital \$100,000, incorporated by L. W. Edwards, L. J. Jordan, both Winston-Salem; E. F. Benfield, Troy, N. C.

Okla., Claremore — Claremore Electric Grinder Co., capital \$10,000, incorporated by G. A. Rogers, H. Tom Brown and R. L. Thomas.

Okla., Hammon—The Hammon Advocate will erect brick building.

Okla., Muskogee—Oklahoma Amusement Co., capital \$25,000, incorporated by Dam Meyers, Wm. Hough, 236 N. 17th St., and Wm. Bain, 402 W. Okmulgee St.

Okla., Ponca City—News Building Corp., capital \$100,000, chartered by Clyde E. Muchmore, H. C. Duvall and others.

Okla., Tulsa—Magneto Ignition Corp., capital \$50,000, chartered by Otto R. Wohlauf, 5 Lucerne Apts.; Hedwig Dohlauf and R. E. Day.

Okla., Tulsa—Rucks-Brandt Construction Co., capital \$50,000, incorporated by Ben F. Rucks, Richard Brandt and G. R. Hawkins.

S. C., Abbeville—Pure Beverage Co., capital \$10,000, incorporated by Wm. P. Greene, and J. L. McMillan.

S. C., Greenville—Huchings Baking Co., E. R. Huchings, Pres., will construct addition to plant.

S. C., Union — Spartan Medical Co. incorporated with Devereux Turner, Pres.; A. R. Corbett, Sec.

Tenn., Johnson City—John Sevier Hotel Co., capital \$70,000, incorporated by James A. Summers, J. W. Ring and R. C. Phillips.

Tenn., Johnson City—Crowell Blevins & Co. increased capital from \$20,000 to \$75,000.

Tenn., Memphis — International Paving Block Co., capital \$100,000, incorporated by Marshall Denny, C. F. Bridges, 295 N. McLean, and H. W. Mann.

Tenn., Memphis—Universal Cotton Co., capital \$250,000, incorporated with S. T. Carnes, Pres., 451 Linden Ave.; W. G. Turner, Treas., 79 N. Bellevue St., will erect plant for cleaning cotton.

Tex., Austin—Flaming Sword Publishing Co. incorporated by Wm. Joseph Simmons, Dr. Fred B. Johnston, Morris A. Moore.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Beaumont—Heisig Storage & Transfer Co. 949 Pearl St., re-organized with James L. Boyd, Mgr.; will continue to operate from present warehouse at Pearl and Washington St.

Tex., Fort Worth — Sunr'se Laboratories Corp., capital \$19,500, chartered by T. C. Terrell, Texas National Bldg., J. R. Church, 1326 Mistletoe St.; R. K. Collins.

Tex., Nocona—Austin Leather Goods Co., increased capital from \$10,000 to \$25,000.

Tex., San Antonio—William Basse Hardware Co., 121 W. Military St., capital \$80,000, incorporated by E. E. Basse, Harry W. Basse and Wm. A. Heusinger.

Tex., San Antonio—Record Publishing Co. incorporated by B. A. Weidemann, Alfred M. Sack and H. R. Sack.

Tex., Sinton—Hatchery—C. O. Wantland, will erect 32x60-ft. hollow tile, factory design building, concrete floors, will probably start construction in August; install \$10,000 equipment, 40,000 egg incubator capacity, farm lighting and water pumping plant. (See Machinery Wanted—Hollow Tile).*

Va., Covington—Hollingsworth & Vose Co., Inc., Boston, Mass., reported to have acquired site of 324 acres on Duncans Creek and will erect paper manufacturing plant, to cost about \$2,000,000. Wire from Hollingsworth & Vose states "We have formulated no plans for building."

Va., Lynchburg—D. B. Byland & Co., R. B. Murdock, Pres., 1010 Clay St., increased capital from \$45,000 to \$100,000.

Va., Norfolk—Money Point Storage Corp., capital \$15,000, incorporated with C. H. Suber, Pres. 24 Hardy Ave.; F. J. Patterson, Jr., Sec.-Treas.

Va., Norfolk — Willow Farm Dairy, Inc., chartered with R. M. Eastwood, Pres., 311 14th St.; W. B. Griffin, Sec., Clarendon Apt.

Va., The Plains—Piedmont Creamery incorporated with R. R. Turner, Pres.; H. H. Hulfish, Jr., Sec.

Va., Richmond—Burglar Alarm Safety Corporation, chartered with T. Gray Haddon, Pres., O. C. Hockett, Sec.; manufacture safety device.

W. Va., Charleston—Charleston Dairy Co., capital \$100,000, incorporated by E. S. Cites, C. J. McCarmack, J. E. Straw, 216 Brooks St.

W. Va., Clarksburg — Reynolds Busline Co., capital \$25,000, incorporated by Ralph T. Reynolds, 405 S. Chestnut St.; M. Reynolds, Richard L. Reynolds, 210 N. Cott St.

W. Va., Clarksburg—Chicago Dairy & Baking Co., R. F. Ash, Mgr., 350 W. Main St., let contract to E. C. Hess, 410 Grove St., to construct addition to bakery; E. J. Wood & Son, Loundes Bldg.*

W. Va., Harpers Ferry—Harpers Ferry Paper Co. has acquired property of Shenandoah Pulp Co. of Harpers Ferry, and Jefferson Power Co.; will operate.

W. Va., Wheeling—Penn Apartment Co., capital \$50,000, incorporated by Joseph H. Reass, Jr., W. B. Hilton, D. G. Morgan, Jr.

Motor Cars, Garages, Tires, Etc.

Ark., Pine Bluff—Turner Tire Co., capital \$25,000, incorporated with Joe F. Turner, Pres.; Kathleen Prichard, Sec.-Treas.

D. C., Washington—Service Station—Joseph McReynolds will erect 3-story automobile service station at Kansas Ave. and Upshur St. N. W.; building to be of brick construction, Indiana limestone trim; has 1½-acre site.

Fla., Groveland—Ogden's Garage will erect

90x24-ft. addition, giving 5000 sq. ft. of floor space.

Fla., Jacksonville—Garage—S. McL. Estes, Inc., capital \$50,000, chartered with S. McL. Estes, Pres., 123 Bayard Place; A. B. Weil, Sec., 1758 College St.

Fla., Miami—Vickers Motor Co., capital \$25,000, incorporated with E. L. Vickers, Pres.; P. M. Wynne, Sec.

Fla., Okeechobee—Bowden Bros. let contract to C. E. Cahow, Fort Pierce, Fla., to construct 50x150 ft. brick garage; W. W. Hatcher, Archt.

Ky., Ashland—Mayo Oil Service Co., C. C. Mayo, Jr., will soon begin construction of filling station at Thirteenth and Central St.

La., New Orleans—Cason's Garage, Lyle Aschaffenberg, Sec., 819 Union St., has acquired property on Perdido St., will improve.*

La., New Orleans—Filling Station—George Gulotto let contract to Wm. Wallace, 129 N. Hagen Ave., at \$14,000 to erect oil station with double apartment on top floor at Baronne and Terpsichore St.

Md., Baltimore—Garage—John F. Wienhold will convert building at 1120 Harford Ave. into public garage.

Md., Baltimore—General Auto Service Co., Inc., 110 McMechen St., capital \$10,000, incorporated by Chas. O. Codd, A. E. Sattler, Harry T. Smith.

Md., Baltimore — Maryland Accessories Corp., 825 Equitable Bldg., chartered by Wm. D. MacMillan, David K. E. Bruce and Joseph T. Brennan.

Md., Baltimore—Automobile Accessories—Graveroll Service of Maryland, Inc., chartered by R. B. Gerhardt, Wm. G. Curren, 2709 Chelsea Terrace, and E. M. Brown, 225 N. Calhoun St.

Md., Baltimore—Stricker Motor Co., 5 N. Stricker St., capital \$10,000, incorporated by James G. Gardill, Ollie F. Oehler and Eugene Gamble, 107 S. Calverton Rd.

Md., Baltimore—Automobile Accessories—The Superior Manufacturing Co., 1602 Gorsuch Ave., capital \$100,000, incorporated by Howard L. DeBaugh, Ralph R. Meeks and J. E. Strayer.

Md., Baltimore—Garage—Jos. Piraino will erect 1-story, brick garage corner Twenty-sixth and Oak St., 106x70 ft., flag roof, estimated cost \$10,000; construction by Owner.

Md., Westminster—Garage—E. M. D. Boyd let contract to Charles B. Hunter for \$20,000 garage building, 75x175-ft.; fireproof construction.

Miss. Hattiesburg—Standard Oil Co., reported to have acquired site corner Plum, Mobile and Buschman Sts., will erect filling station.

Miss., Jackson—Auto Storage Co. incorporated by W. Calvin Wells, John T. Caldwell, Stokes V. Robertson.

Mo., Kansas City—Kansas City, Clay County and St. Joseph Auto Transit Co., incorporated by Robert P. Woods, 515 E. 47th St.; Charles W. Ford and Wm. S. Tuley.

Mo., Kansas City—Garage—Kaw Valley Investment Co. will erect \$400,000 garage building on Broadway between Eighteenth and nineteenth with an area of 75,000 ft. of floor space; 1 and 2 story, frontage of 183 ft. on Broadway, fireproof, reinforced concrete, brick, steel and stone; building to be leased by the Post Office Department; William J. Koch, Archt., 3938 Garfield St.; George E. McIntyre, Engr., 409 E. 54th St.

Mo., St. Louis—Board of Public Service will receive bids July 22 for public market and garage; cost about \$850,000; cost of furnishing, etc., \$150,000; 3 stories with 2 upper floors for garage.

Mo., St. Louis—Ustick Motor Car Co., capital \$20,000, incorporated by Edward T. Ustick, 4207 Westminster Place, Edward T. Ustick, Jr. and others.

Mo., St. Louis—St. Louis Auto Sales Co., capital \$10,000, incorporated by J. Meyer, Wm. Schröber, L. Hocker, 506 Olive St.

N. C. Charlotte—Pyramid Motor Co., 403 N. Tyron St., let contract to J. A. Jones Construction Co., Realty Bldg., at \$68,000 for 2-story and basement building at Trade and Davidson St.; brick and concrete construction; Louis H. Asbury, Archt., Realty Bldg.

Okla., Oklahoma City—State Battery Service Corp., capital \$10,000, incorporated by Dick Light 1413 N. Penn St.; E. Reith and E. Reuter.

Okla., Okmulgee—Moltz Tire Co., 206 W. 15th St., incorporated by M. A. Moltz, 206 W. 5th St.; J. A. Rand and E. H. Locher.

Tenn., Memphis—Garage—Dermon & Jett let contract to Hansen & Worden, Memphis, at \$200,000 to erect 5-story, 183x245-ft. auto storage building on Gayoso Ave.; concrete reinforced with steel; each floor will contain 44,000 sq. ft. floor space, and made accessible by the improved ramp system; Pfeil & Awsumb, Archts.*

Tex., Thorndale—Becker Motor Co. incorporated by August Becker, Will Wuensche and Chas. A. Davis. (Supersedes recent item.)

Tex., Wichita Falls—Fritz Motor Co., capital \$25,000, incorporated by D. L. Fritz, C. O. Fritz and L. R. Fritz.

Va., Bristol—Harler Motor Co., Inc., capital \$50,000, incorporated with Charles L. Harler, Pres.; Emmett A. Whitlock, Sec.

Va., Norfolk—Ford Motor Co., Detroit, Mich. reported as having let contract to Rust Engineering Co., Pittsburgh, Pa. Wire from Rust Engineering Co. advises: "We have contract for Ford plant excavation June sixteenth, assembly building 300x800 ft., one story 25 ft. high; oil house 115x70 ft. one story; power house 70x65-ft. 1 story and basement; all buildings structural steel frame, solid brick curtain walls, steel sash, pre-cast roof tile, built-in roofing, limestone trim; equipment by owner; heating, plumbing and electrical work not by general contractor; unable to state contract price.*"

W. Va., Bluefield—Bluestone Motor Co., L. H. Neff, Local Mgr., will erect 5-story, fireproof building.

W. Va., Clarksburg—West Virginia General Motors Truck Co., capital \$100,000, incorporated by R. C. Helmick, J. M. Carskadon, 159 E. Main St., and C. C. Jarvis, 131 W. Main St.

W. Va., Nellis—Nellis Motor Sales Co., incorporated by V. D. Young, R. O. Harless, Windsor Eagan.

W. Va., Wheeling—Twelfth Street Garage, C. A. Vaden, Pres., will erect 86x135-ft. addition, reinforced concrete, giving four additional floors; estimated cost \$60,000; will install latest wash stand equipment; C. W. Bates, Archt., 77 Twelfth St. (See Machinery Wanted—Garage Equipment).*

Railway Shops, Terminals, Roundhouses, Etc.

La., Shreveport—The Texas & Pacific Ry. Co., E. F. Mitchell, Chf. Engr., Dallas, Tex., reported as contemplating construction of roundhouse and train yard near Jewella, local suburb; estimated cost \$1,000,000.

S. C., Spartanburg—Southern Railway System, Lauren Foreman, Publicity Agent, awarded contract to Dwight P. Robinson Co., 125 East 46th St., New York, for construction of new freight and passenger car repair shops at Hayne, S. C., near Spartanburg.*

Road and Street Construction

Ala., Anniston—City let contract to Morgan-Hill Paving Co., Woodward Bldg., Birmingham, at \$28,237 to pave Eighth St. from Leighton Ave. to Noble St., and Woodstock Ave.

Ala., Birmingham—City will receive bids July 1 to grade, lay sidewalks, curb and gutter, and concrete and asphaltic concrete pavement, estimated cost \$104,210; A. J. Hawkins, City Engr.*

Ala., Birmingham—City Comm., plans paving Rhodes Circle and several streets leading from circle.

Ala., Eutaw—State Highway Dept., Montgomery, let contract to Lamb & McLemore, Eutaw, at \$128,458, for 9.187 mi. gravel road and necessary bridges in Greene County.

Ala., Florence—City Comm., plans expending about \$125,000 for streets, sidewalks and sewer in new residential section north of Normal.

Ala., Gadsden—City plans paving with asphaltic concrete Eleventh St. from Chestnut to Forest Ave. Address The Mayor.

Ala., Grove Hill—State Highway Dept., Montgomery, received low bids from J. M. McKee, Leroy, Ala., at \$73,329, to grade, drain and gravel surface 6.035 mi. from Thomasville toward Linden.*

Ala., Huntsville—City let contract to Lashley Brothers, Chattanooga, Tenn., at \$29,039 to pave Randolph St. from Green to city limits.

Ala., Montgomery—City plans paving entire length Madison Ave. and Lewis and Lasseter St. in Capital Heights; J. W. Heustess, Mayor.

Ala., Phenix City—City plans paving streets and installing sanitary sewerage; Powe & Williamson, Engrs., Dothan, Ala.; Claude B. Gullatt, Mayor.

Ala., Rockford—State Highway Comm., Montgomery, plans 12½ mi. gravel highways from Kelleyton through Goodwater about 2 mi. toward Sylacauga, and from Goodwater about 4.4 mi. toward Ashland; also 1/3 mi. concrete pavement in Goodwater, Federal Aid Project No. 90; G. N. Mitcham, Div. Engr.

Ala., Tallahassee—Details under Textile Mills.

Ark., El Dorado—State Highway Comm., Little Rock, received low bid from Smith & Campbell, El Dorado, at \$67,762 for dirt and drainage work on 12 mi. 18-ft. gravel El Dorado-Smackover Highway.*

Ark., Little Rock—Board of Commrs. Street Improvement Dist. No. 384 will receive bids this week to grade, drain and pave 19 blocks, approximately 5700 ft. streets, 3900 ft. concrete curb, new; 2800 ft. stone curb, reset; 6300 cu. yds. excavation; 6900 sq. yds. concrete gutter; 820 ft. 12 and 15-in. storm sewer; three manholes; seven inlets; 20,400 sq. yds. concrete base and asphalt surface; 27,300 sq. yds. concrete pavement, alternate; Alfred M. Lund, Engr., 527 Southern Trust Bldg., Little Rock.

Ark., Van Buren—Crawford County let contract to Ed Caughman, Mountainburg, to rebuild 1½ mi. road connecting Chester with U. C. T. Highway. Address County Commrs.

Fla., Bartow—Polk County plans building 4 asphalt or brick roads, totaling 45 mi.; will vote this week on \$550,000 bonds. Address County Commrs.*

Fla., Bartow—City let contract to West Construction Co., Chattanooga, Tenn., and Kinston, N. C., at about \$23,000, to pave, curb and gutter and install storm sewers on about 7 mi. streets, 18-ft. to 34-ft. asphaltic concrete, with H. M. P. asphalt on clay foundation.

Fla., Bartow—Polk County Road and Bridge Dist. No. 3 plans road building; voted \$615,000 bonds; J. D. Raulerson, Clk. County Commrs.

Fla., Bithlo—City let contract to Pryor & Deen, Haines City, Fla., at \$100,000, for 4½ mi. 16-ft. rock base asphalt top street paving.*

Fla., Bradentown—City let contract at \$155,500 for grading and paving street, constructing sewers, extending water lines, etc., to H. R. Curry, Gen. Contr., and N. J. Trudell, concrete work, all Bradentown.*

Fla., Clearwater—Pinellas County plans paving 3 roads south of St. Petersburg as follows: Lakeview Ave. from Tampa Bay to Boca Ceiga Bay; Tangerine Ave. from Sixteenth St. to Gulfport and Fourth St. to Point Pinellas, then to Maximo road and back Maximo road to Tangerine Ave.; asphalt blocks, 16 ft. wide. Address County Commrs.*

Fla., Clearwater—Fuller-Hunter Corp., St. Petersburg, let contract to Peninsular Construction Co. for roadway on 80-ft. wide boulevard through Jungle Terrace on shores of Boca Ceiga Bay, modern four-layer macadam, with smooth Tarvia top. Address County Commrs.

Fla., Crescent City—City plans paving principal streets. Address Mayor Middleton.

Fla., Fort Pierce—State Road Dept., Tallahassee, will receive bids July 16 for 12.8 mi. hard surface Fort Pierce-Okeechobee road, State Road No. 8, from St. Lucie-Okeechobee County line eastward; rock base on prepared sub-grade.

Fla., Gainesville—City will receive bids July 14 for 20,000 sq. yds. paving; 10,700 lin. ft. concrete curb; 10,700 lin. ft. concrete curb and gutter; 20,000 lin. ft. 12 to 18-in. storm sewer, sheet asphalt, asphaltic concrete, vitrified brick and similar paving for surface; plans, etc., from G. H. Cairns, City Mgr.; E. V. Camp and Associates, Conslt., Supvg. and Testing Engrs., Atlanta, Ga., and Jacksonville, Fla.

Fla., Lakeland—City will receive bids July 8 to grade and pave about 130,000 lin. ft. 5 and 6-ft. wide sidewalks; portland cement concrete; plans, etc., from Anton Schneider, City Mgr.; Charles Carroll Brown, City Engineer.

Fla., Lakeland—City Commrs. plan paving Georgia Ave. from Patterson to Highland Sts., and from Hillcrest Drive to Cresap St.; Gilmore and Stella Aves., from Bon Air to Garden; Park St. between Fifth and Sixth Aves.; Sixth Ave. from Park to Lake Hunter Drive; Patterson from Fifth to Sixth; widen Main St. between Massachusetts and Kentucky Aves., and Tennessee and New York Aves.

Fla., Miami—City Comm. will receive bids July 1 for street paving in Highway Improvements No. 224 to No. 237, as follows: Furnish material and lay approximately 124,064 sq. yd. waterbound macadam with surface oil treatment; 63,599 sq. yd. 2-in. bituminous macadam on 5-in. pit rock base; 125,959 sq. yd. 3-in. sheet asphalt on 5-in. pit rock base; 79,535 lin. ft. curb and gutter; 6360 lin. ft. 8-in. terra cotta pipe; 212 sewer inlets or catch basins; 28 manholes; 334,299 sq. yd. grading plans, etc., from Ernest Cotton, Director of Public Service; H. E. Ross, City Clk.

Fla., Ocala—City plans street paving; will vote Aug. 5 on \$200,000 bonds. Address the Mayor.

Fla., Seabreeze—Town will receive bids July 9 to furnish material and lay 63,100 sq. yds. brick, concrete or bituminous pavement with necessary curb, gutter and appurtenances; plans, etc., from Harry Gilmore, Clk., or N. A. Hotard, Engr.; P. D. Gold, Mayor.

Fla., St. Petersburg—City let contract to Southern Construction Co., St. Petersburg, at \$2.09 per sq. yd. to pave street shoulders on Third from River St. to Bollingbrook St.

Fla., Tampa—Details under Land Development.

Fla., Tavares—City let contract to Pryor & Deen, Haines City Fla. at \$150,000 for hard surfaced streets. Finley method asphalt, type C, 6-in. limestone rock base.*

Georgia—State Highway Dept., East Point, will receive bids July 2 to furnish labor, material, equipment, etc., for 4 road projects as follows: Mitchell County, 10 mi. concrete on Albany-Camilla-Pelham Road, Federal Aid Project No. 95, 105,600 sq. yds. concrete paving, 10 mi. shoulder construction; E. Jack Smith, Div. Engr.; Brantley County, 9.07 mi. grade, Waycross-Brunswick, Federal Aid Project No. 388, 69,141 cu. yds. common and borrow excavation, 5732 lbs. reinforcing steel; H. M. Pafford, Div. Engr., Waycross; Muscogee County, 4.582 mi. paved road on Columbus-Fort Benning road, Federal Aid Project No. 184, 32,936 cu. yds. common borrow, loose rock and solid rock excavation, 38,029 lbs. reinforcing steel; alternate bids on following paving: 48,812 sq. yds. concrete pavement, 46,528 sq. yds. standard sheet asphalt, 4200 tons binder, 48,837 lin. ft. 5-in.x12-in. concrete curb, 11,628 cu. yds. 8-in. compacted gravel base, 46,528 sq. yds. 3-in. vitrified brick pavement, asphalt filler on 5-in. concrete base, 58,812 sq. yds. concrete class B base course, including curb; 46,528 sq. yds. 3-in. vitrified brick pavement, asphalt filler on 8-in. gravel base, 11,628 cu. yds. 8-in. compacted gravel base, 48,837 cu. yds. 5-in.x12-in. concrete curb; C. L. Rhodes, Div. Engr.; Polk County, .58 mi. concrete Cedartown-Dallas road, Federal Aid Project No. 303, 6811 sq. yds. 6-in. concrete paving; E. M. Arnold, Div. Engr.; W. R. Neel, State Highway Engr.

Georgia—State Highway Dept., East Point, will receive bids July 2 to furnish material, labor, etc., for 34 road projects as follows: No. 371, Sec. A, Cobb County, 3.19 mi. asphalt pavement on Atlanta-Marietta road, 33,748 sq. yds. 3-in. penetration, 2400 tons binder, penetration macadam as per typical section, 1275 tons sheet asphalt seal wearing course, or bituminous concrete (Topeka), on gravel base; E. M. Arnold, Div. Engr.; Stephens-Habersham Counties, .74 mi. topsoil road from Sta. 371 plus 00 to Sta. 410 plus 00, Stephens County, and .319 mi. topsoil road from Sta. 410 plus 00 to Sta. 430 plus 00, Habersham County, Federal Aid Project No. 382; Sec. C, 39,691 cu. yds. common borrow, loose rock, solid rock, ditch and overhaul excavation, 1095.92 cu. yds. topsoil, 876.58 cu. yds. sand-clay bound macadam; Sec. D, 12,088.5 cu. yds. common, borrow, loose rock, solid rock and ditch excavation, 700.8 cu. yds. topsoil surfacing, 288.9 cu. yds. sand-clay bound macadam; E. N. Parker, Div. Engr.; Rabun County, 3.029 mi. clay gravel Clayton-Tiawasse road, Aid Project No. 391, 53,389 cu. yds. common, borrow, loose rock and solid rock excavation, 5457.1 cu. yds. local clay gravel; E. N. Parker, Div. Engr.; W. R. Neel, State Highway Engr.

Ga., Atlanta—City let contracts for street paving as follows: MacDougald Construction Co., Angler Rd., concrete Seal Place from Boulevard to Blvd. Circle at \$2.39 per yd.; Atwood St. from Gordon to Lucile at \$2.49 per yd.; asphalt, Montgomery Ferry Drive from Maddox to north end of present paving, \$1.30; East Fair St. from Capitol Ave. to Pryor, \$1.30; Pitman Construction Co., Rhodes Bldg., \$2.40 per yd., concrete on Randolph St. from Edgewood to Highland;

Sam E. Finley, 212 W. North Ave., asphalt, Trinity Ave. from Fair to Forsyth, \$1.66; Mills from Luckie to Williams, \$1.69; Davis Construction Co. Walton Bldg. concrete, East Fair from Capitol to Grant, \$2.75; Jamison & Hallowell, Candler Bldg., concrete, Clifton from Blvd. DeKalb to East Fair, \$2.44; Brittain Construction Co., 608 Decatur St., concrete, Clifford from DeKalb to Brown Ave., \$2.46; Case & Cothran, Candler Bldg., concrete, S. Warren from Boulevard Drive to East Fair, \$2.39, all Atlanta.

Ga., Gainesville—City let contract to Pitman Construction Co., Atlanta, at \$2.16 per sq. yd. to pave $1\frac{1}{2}$ mi. streets; W. A. Mitchell, Mayor.*

Ga., Lawrenceville—Gwinnett County and State Highway Dept., East Point, plan 16.4 mi. penetration macadam road in County on Atlanta-Lawrenceville road; County to furnish labor, State Highway Dept., materials.

Ga., Savannah—City plans paving three sections from Liberty to Gwinnett, from Gwinnett to Thirty-sixth and from Thirty-sixth to Forty-fifth. Address Mayor Seabrook.

Ga., Swainsboro — State Highway Dept., East Point, let contract to Savannah Foundation Co., Chatham Artillery Bldg., Savannah, at \$58,336, for 1.544 mi. 18-ft. sand-clay road and 2 timber bridges on Swainsboro-Waynesboro road in Burke-Emanuel Counties.*

Ky., Calhoun — McLean County Road Commrs. let contracts to grade 3 sections of Island-Sacramento road as follows: Two sections, 1 mi. each, to B. J. Coke and Ray Fulkerson at 28 cents per cu. yd.; 1 mi. to C. W. Reynolds at 25 cents per cu. yd.

Ky., Greenville—City plans laying asphalt streets, with drain pipes, catch basins, gutters, curbs and culverts, including Main and Hopkinsville Sts. Address The Mayor.

Ky., Henderson—City will receive bids in July for 67,848 sq. yds. street paving, vitrified or vertical fiber brick, granite block, waterbound macadam or bituminous macadam, 26,688 cu. yds. earth excavation, 1070 lin. ft. curb and gutter; S. H. Kimmel, Engr.*

Ky., Owensboro — City will receive bids June 30 to surface 29,350 sq. yds. macadam street, with asphaltic concrete or Kentucky rock asphalt, Frederica from Sixteenth to Eighteenth; Ninth from Walnut to western city limits; Third from St. Elizabeth to Cedar and from Davies to Triplett; Second from Lewis to Triplett; Triplett from Sixteenth to Eighteenth; plans, etc., from City Clk. and E. B. Shifley, City Engr.

La., Baton Rouge—Jos. Gebelin, Bank of Baton Rouge, will receive bids this week for road and bridge in Suburb Montesana, 9000 cu. yds. earthwork; 10,000 ft. B. M. lumber in Bridge No. 1, cypress; plans, etc., from C. E. Huey.

La., Gretna—Jefferson Parish Police Jury plans road improvement in Seventh, Eighth and Ninth Wards; voted \$500,000 bonds; Wm. Hepting, Sec.*

La., Minden—Webster Parish plans road building; voted \$650,000 bonds as follows: Road Dist. No. 1, \$500,000; Road Dist. No. 2, \$150,000. Address Parish Police Jury.

La., Monroe—City will receive bids this week to pave River Front St. from Pine to Forsythe Ave., 20,000 sq. yd. sheet asphalt on old gravel base; P. A. Poag, City Sec.

La., Natchitoches — Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids July 10 for 6.95 mi. gravel, Natchitoches-Leesville Highway from ward line between wards 7 and 8, north through Belwood, Natchitoches Parish, State Project 315-A; plans, etc., on file; J. M. Fourmy, State Highway Engr.

Unprecedented Construction Activity in Southern States

\$104,425,000

public improvement bonds sold first four months—1924.

29,163

construction items published in first five months—1924.

\$84,280,000

public improvement bonds sold first four months—1923.

25,021

construction items published in first five months—1923.

La., New Orleans—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, will receive bids July 8 to grade 6.69 mi. Livonia-Lottie Highway, Pointe Coupee Parish, State Project 407; plans, etc., on file; J. M. Fourmy, State Highway Engr.

La., Tallulah—Madison Parish Police Jury will receive bids July 2 to gravel surface Joan-Montrose road; plans, etc., on file; P. O. Benjamin, Sec.

La., Ville Platte — Louisiana Highway Comm., Raymond Bldg., Baton Rouge, let contract to A. J. Singletary, Oakdale, at \$50.818 for 9 mi. Oakdale-Opelousas road.*

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, will receive bids July 8 for 9 road projects as follows: Montgomery County, 2 sections; 1 mi. concrete from Colesville toward Ashton, Cont. M-52; 2.03 mi. concrete shoulders from Kensington to Chevy Chase, Cont. M-169-S; Prince George's County, 2 mi. concrete from Bladensburg to East Riverdale, Cont. P-53; Howard County, 2 sections; 1.3 mi. concrete from end of Cont. Ho-42 to Jonestown, Cont. Ho-48; 1.48 mi. concrete between West Elkridge and Millers Corner, Cont. Ho-25; Baltimore County, .46 mi. concrete through Catonsville, Cont. B-12-C; Queen Anne's County, .7 mi. concrete from Centerville to Centerville Landing, Cont. Q-30; Cecil County, 1 mi. concrete between Calvert and Fair Hill, Cont. Ce-32; Calvert County, 1.5 mi. gravel from Huntington toward Plum Point, Cont. C-17; John N. Mackall, Chmn.

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, let contracts for 5 road projects as follows: Anne Arundel County, 1.88 mi. gravel from end of Cont. AA-22 to Davidsonville, John J. Stehle, \$19,374; Harford County, 1.04 mi. macadam resurfacing from Conowingo road to Dublin, Thos. P. Murray, \$17,708; Cecil County, 2.14 mi. concrete from Elkton to Delaware State Line, Broad Creek Construction Co., \$61,080; Queen Anne's County, 1.5 mi. concrete from end of Cont. Q-26, toward Sudlersville, Charles Webster Construction Co., \$35,151; Caroline County, 1.17 mi. concrete from end of Cont. Co-27, toward Federalsburg, Holt Construction Co., \$29,514.*

Maryland—State Roads Comm., 601 Garrett Bldg., Baltimore, received low bids for 5

road projects as follows: Allegany County, 3.36 mi. macadam surfacing from Six Mile House on National Pike to Cresaptown, S. T. Brotemarkle, Cumberland, \$62,374; Prince George's County, 1.03 mi. gravel along Crystal Spring Ave. from Central Ave. to Marlboro Pike, St. Mary's Construction Co., Mechanicsville, Md., \$9377; Calvert County, 3 mi. gravel from Huntington toward Plum Pike, T. B. Lewis & Son, Hyattsville, \$38,287; Dorchester County, 3.6 mi. concrete from end of Cont. D-35 toward Golden Hill and toward Lakesville, Slacum, Brohawn & Woolford, Cambridge, \$85,441; Worcester County, 1 mi. concrete from end of Cont. Wo-28 toward Public Landing, John K. Flick, Sudlersville, \$33,104.

Md., Baltimore—City plans opening, widening and grading Carnegie Ave. from Eastern Ave. to St. Helena; Howard W. Jackson, Mayor.

Md., Baltimore — Board of Awards will receive bids July 2 to grade and pave with cement concrete alleys in Alley Contracts Nos. 110 and 111; plans, etc., on file; Mayor Howard W. Jackson, Pres.; Bernard L. Crozier, Highways Engr.

Md., Chestertown—State Roads Comm., 601 Garrett Bldg., Baltimore, Md., let contract to Kaufman Construction Co. at \$33,584 for 1.3 mi. road from McLain's Corner near Fairlee to Tolchester, being connecting link with Chestertown-Rock Hall stone road.

Md., Cumberland—City received low bid from Cumberland Contracting Co. to pave several sections of streets as follows: Franklin between Centre and Mechanic, Eutaw Place, Highland St. and repave S. Centre St.*

Md., Frostburg—City plans repaving section between tracks on East Union St.; Samuel R. Tiddy, Mayor.

Miss., Charleston — Tallahatchie County plans improving roads connecting with Leflore County roads in and around Phillip and Minter City, touching Greenwood-Money-Tallahatchie County line road, under construction; sold bonds. Address County Commrs.

Miss., Laurel—City will receive bids July 14 for 22,000 sq. yd. street paving, vertical fibre or vitrified brick, concrete, or asphaltic concrete; 2500 lin. ft. curb; 10,000 lin. ft. curb and gutter; 6700 sq. yd. sidewalks;

8000 cu. yd. grading; plans, etc., from City Clk.; F. B. Ross, City Engr.*

Missouri—State Highway Dept., Jefferson City, let contracts for 6 road projects as follows: Wayne County, 2 sections; Route 34, Sec. 14, 2.836 mi. 26-ft. graded earth from Sylvia east, Hugh H. Humphreys Construction Co., Fredericktown, Mo., \$12,908; Route 23, Sec. 8, 2.106 mi. 12-ft. gravel from Coldwater north, Hugh H. Humphreys, \$9159; Route 5, Sec. 5, Sullivan County, 2.106 mi. 30-ft. graded earth from Milan north, John L. Simmons, La Platta, Mo., \$15,495; No. 244-B, Cooper County, 3.875 mi. 18-ft. gravel pavement from Otterville, east and west, S. J. Groves & Sons, Minneapolis, Minn., \$58,616; No. 244-D, Morgan County, 4.553 mi. 18-ft. gravel from Syracuse east and west, H. J. Groves & Sons, \$58,168; No. 244-C, Cooper County, 3.963 mi. 18-ft. gravel from Otterville to Syracuse, S. J. Groves & Sons, \$75,548.*

Missouri—State Highway Dept., Jefferson City, let contracts for 25 road projects as follows: Warren County, 4 sections; 236-D, 4.834 mi. 18-ft. concrete, Haller & Davis, Boonville, \$65,342; 236-A, 3.712 mi. 34-ft. graded earth, Gaines Brothers & Co., Fairland, Okla., \$14,587; 236-B, 4.083 mi. 34-ft. graded earth, Gaines Bros. Co., \$25,929; 236-C, 4.523 mi. 34-ft. graded earth, Gaines Bros. Co., \$41,782; Route 2, Sec. 37, Montgomery County, 1.138 mi. 30-ft. graded earth, Chas. G. Powell, Montgomery, Ala., \$4401; Webster County, 4 sections; 240-A, 4.944 mi. 34-ft. graded earth, C. F. Johnson & Sons, Buffalo, Mo., \$40,399; 240-B, 4.793 mi. 34-ft. graded earth, M. E. Gillioz, Monett, Mo.; 240-C, 3.892 mi. 34-ft. graded earth, M. E. Gillioz.

240-D, 3.811 mi. 34-ft. graded earth, M. E. Gillioz; Route 40, Sec. 10, Christina County, 4.214 mi. 26-ft. graded earth, J. T. Fox, Branson, Mo., \$11,264; Cole County, 2 sections; Route 15, Sec. 54, 1.753 mi. 30-ft. graded earth, Doehla-Kolkmeier, Jefferson City, \$9120; Sec. 55, 5 mi. 30-ft. graded earth, Felix Kersting & Co., Jefferson City; Route 5, Sec. 90, Douglas County, 1.943 mi. 26-ft. graded earth, Sommerfeld-Jones, Billings, Mo., \$8023; Route 13, Sec. 36, Henry County, 4.329 mi. 30-ft. graded earth, Mike Haase, Trenton, \$20,961; Route 15, Sec. 10, Knox County, 3.374 mi. 16-ft. gravel, Willson Construction Co., Warrensburg, Mo., \$17,843; Lawrence County, 2 sections to M. E. Gillioz; Route 16, Sec. 17, 3.426 mi. 16-ft. chats, \$18,474.

Sec. 18, 2.481 mi. 16-ft. chats, \$22,279; Route 3, Sec. 20, Livingston County, 30-ft. graded earth, Pittsburgh-Des Moines Steel Co., Des Moines, Iowa, \$28,526; Route 1, Sec. 116, McDonald County, 3.349 mi. 26-ft. graded earth, Winsted & Gunther, Siloam Springs, Mo., \$35,143; Route 15, Sec. 57-A, Miller County, 4.838 mi. 12-ft. gravel, L. Kimball, Clear Lake, Iowa, \$15,415; Route 110-B, Phelps County, 2.835 mi. 12-ft. gravel, 31, St. Francois Co., \$24,761; Route 32, Sec. 3, St. Francois County, 1.163 mi. 26-ft. graded earth, J. L. Moss, Webb City, \$11,612; Route 189-A, Taney County, 4.045 mi. 12-ft. gravel, L. O. Kimball, \$16,021; Wayne County, 2 sections to C. P. O'Reilly & Co., 624 Wainwright Bldg., St. Louis, Mo.; Route 23, Sec. 19, 2.889 mi. 26-ft. graded earth, \$16,310; Sec. 20, 2.915 mi. 12-ft. gravel, \$26,153.*

Missouri—State Highway Dept., Jefferson City, Mo., received low bids for 8 road projects as follows: Dunklin County, 3 sections; State Project Refund No. 1-A, 2.273 mi. 16-ft. gravel from Caruth to Hornersville, W. W. Banker Construction Co., Memphis, Tenn., \$33,591; No. 2, 3.510 mi. gravel from Arbyrd south, C. G. Oglesby, Memphis, \$42,050; No. 1-B, 4.711 mi. 16-ft. gravel from Caruth

to Hornersville, W. W. Banker Construction Co., \$55,969; No. 1, Mississippi County, 2.098 mi. 16-ft. gravel from East Prairie east, Reynolds, Blaker & Crews, Caruthersville, \$24,887; Route 13, Sec. 41, St. Clair County, 4.648 mi. 30-ft. graded earth from Osceola south, C. L. Johnson, Warrenburg, \$28,304; Route 15, Sec. 63-A, Camden County, 3.327 mi. 12-ft. gravel from Zebra east and west, Felix Kersting Co., Jefferson City, \$16,076; No. 236-D, Warren County, 4.834 mi. graded earth from Wright City east and west, Haller & Davis, Boonville, \$36,612; Route 13, Sec. 53, Polk County, 3.227 mi. 16-ft. gravel from Bollivar west, Easley Bros., Aurora, Mo., \$33,424.*

Mo., Kansas City—Park Board will receive bids this week to pave traffic way from Cliff Drive bridge to northern terminus; also plans paving traffic way from Independence Blvd. north to connect with Chestnut Ave. viaduct.

Mo., Maryville—City let contract to Cook & O'Brien Construction Co., Kansas City, Mo., for 6½ blocks concrete street paving.*

Mo., St. Joseph—Board of Public Works will pave with concrete Seventeenth St. from Sacramento to Duncan.

Mo., St. Joseph—City let contract to Land Construction Co., St. Joseph, at \$14,616 to re-surface with asphaltic concrete, 1 mi. Mitchell Ave. road.*

Mo., Webb City—City plans paving street through main section of city to connect with Carthage-Joplin concrete highway; contemplates bond issue. Address The Mayor.

N. C., Elizabeth City—City plans extending sidewalks, laying curbs and gutters, extending street paving and installing catch basins, drains, etc.; contemplates \$35,700 bond issue; J. H. Snowden, Clk.

N. C., Salisbury—City will receive bids this week for 30,500 sq. yds. sheet asphalt, bitulithic, asphaltic concrete on concrete foundation and 13,000 sq. yds. concrete paving with necessary curbing, drains, excavations, etc.; plans, etc., from R. W. Cole, Engr.; C. G. Wells, Clk.

N. C., Salisbury—Rowan County Commrs. plan building sand-clay road from Mill Bridge to Iredell line on Lincolnton road to connect with Iredell's hard surfaced road under construction.

Okla., Antlers — Pushmataha County Commrs. plan road between Clayton and Hugo as connecting link on Choctaw trail between Le Flore County hard surfaced roads and Choctaw trail in Texas.

Okla., Enid—Garfield County will receive bids June 28 to roll sub-grade and to grade spread and roll gravel on about 2½ mi. road, 3400 cu. yds. graveling; plans, etc., from County Clk.

Okla., Enid—Garfield County will receive bids June 28 for gravel road from Twentieth & Chestnut St., east to Twenty-sixth St., then 1 mi. north to Institute for Feeble Minded.

Okla., Holdenville—Hughes County plans road building; voted \$400,000 bonds; Roy Grace, County Engr.*

Okla., Medford—Grant County Commrs. plan 2 mi. hard surfaced roads from bridge over Salt Fork River near Pond Creek, north.

Okla., Nowata—Nowata County plans about 90 mi. permanent road building; will vote July 22 on \$500,000 bonds. Address County Commrs.

Okla., Oklahoma City—State Board of Public Affairs will receive bids July 1 to grade State Capitol grounds in Oklahoma City, 40,000 cu. yds.; plans, etc., on file; Carl L. Rice, Chmn.

Okla., Oklahoma City — State Highway Comm., Oklahoma City, will receive bids this

week for 1 mi. concrete road from Choctaw east, 17,580 cu. yd. earth excavation, overhaul and borrow; 2200 lbs. reinforcing steel; 10,560 sq. yd. concrete; plans, etc., on file; J. M. Page, State Highway Engr.

S. C., Aiken—City let contract to Clausen-Lawrence Construction Co., 1473 Greene St., Augusta, Ga., at \$27,189 for street paving; 8844 sq. yd. plain concrete; 2811 lin. ft. curb; 1398 sq. yd. sidewalks.*

S. C., Denmark—City will receive bids July 8 for street and sidewalk paving, estimated cost \$30,000; plans, etc., from J. B. Gillam, Clk.-Treas., and Ryan Engineering Co., Engrs., Arcade Bldg., Columbia, S. C.

S. C., Greenville—Greenville County let contract to Ballenger Paving Co., at \$38,103, for 1.27 mi. 18-ft. concrete lower Easley road, State Route No. 2, from city limits of Greenville to Looper's Store.*

S. C., Walhalla—Town will receive bids July 8 for 15,000 sq. yds. pavement; Warren H. Booker, Const. Engr., Charlotte, N. C.

Tennessee—Dept. of Highways and Public Works, Nashville, let contracts for 10 road projects as follows: Federal Aid Project No. 29, Sec. A, Gibson County, grade and drain 2.25 mi. State Highway No. 5, between Humboldt and Madison County line, also 2 bridges, Cresap Brothers, Humboldt, \$34,877; No. 29, Sec. B, grade and drain 7.78 mi. State Highway No. 5, between Gibson County line and point 4.6 mi. from Jacksonville, F. D. Harvey & Co., 688 S. Bellvue St., Memphis, Tenn., \$46,046; also to J. A. Paterson, Montgomery, Ala., \$80,941 for 2 bridges; No. 31-A, Tipton County, grade and drain 9.36 mi. State Highway No. 3, between Shelby County line and Brighton, also 2 bridges, J. A. Par-due & Co., Pine Bluff, Ark., \$106,053.

No. 31-B, Tipton County, grade and drain 7.37 mi. State Highway No. 3, between Brighton and Covington, Little & Dean, 63 S. 3rd St., Memphis, \$43,898; also 3 bridges, Ellis & Smothers, Ownesboro, Ky., \$33,029; No. 151-C, Coffee County, 9 mi. giant macadam base course on State Highway No. 2, between Rutherford County line and point 5 mi. northwest of Manchester, Pitt Brothers, Mt. Pleasant, Tenn., \$84,387; 163-B, Kalb County, 4 bridges, Nashville Bridge Co., Shelby Ave., Nashville, \$103,556; No. 167, Gibson County, grade and drain 9.413 mi. State Highway No. 42, between Madison County line and Milan, also one bridge, S. R. Hall, Newbern, Tenn., \$58,950; No. 168, Madison County, grade and drain 3.66 mi. State Highway No. 42, between Gibson County line and Federal Aid Project No. 26-B, also one bridge, F. D. Harvey, Memphis, \$58,562.

No. 169-A, 8 mi. road and one bridge, Ellis & Smothers, \$74,349; No. 169-B, grade and drain 4.60 mi. State Highway No. 21, between Hornbeak and Federal Aid Project No. 71-B, Ellis & Smothers, \$35,067; No. 170, Marion County, grade, drain and lay 16-ft. waterbound macadam base course on 4.625 mi. State Highway No. 2, between State Aid Project No. 136 and point near Battle Creek, also four bridges, Brown Brothers & Co., Tracy City, Tenn., \$136,923; No. 171, Grundy County, grade, drain and lay 9-ft. macadam base on 5.02 mi. State Highway No. 36, between Warren County line and Tarlton, also two bridges, Brown Brothers & Co., \$65,737.*

Tenn., Henderson—City will receive bids June 30 for street improvement on Main St., Ordinance Nos. 1, 2 and 3, and on Crook Ave., Ordinance No. 5; alternate bids on concrete, rock asphalt and oil gravel; plans, etc., from W. J. Baldy, Recorder, Henderson, and L. O. Brayton, Const. Engr., Dyersburg.

Tenn., Jackson—City will receive bids July 8 for street improvements and storm sewers.

102,600 sq. yds. pavement, 42,800 lin. ft. concrete curb and gutter, 3500 lin. ft. storm sewers with necessary inlets and manholes, sheet asphalt or 30-in. vertical fiber brick on concrete base, 6-in. one-course concrete pavement; E. R. Dike, City Engr.; C. E. Griffin, Commr. of Public Utilities.

Tenn., Nashville—City plans widening Church St. from Eighth to Ninth Ave. Address The Mayor.

Tex., Anderson—Grimes County plans hard surfacing roads; Quarrels, Adams & Gaines, Engrs., Anderson, preparing plans; R. M. West, County Judge.

Tex., Beaumont—City Comm. will receive bids this week for 2 blocks paving 5-in. concrete; 1-in. rock asphalt top; sewer inlets; 100 tons asphalt; 300 cu. yd. concrete; 1400 ft. curb and gutter; 700 cu. yd. earth excavation; R. M. Fulweiler, Engr.*

Tex., Beaumont—City Commrs. plan paving Victoria St. with grade B material from Craig to Irma and from Easy to Bolivar; also pave with grade A material Shamrock between Turon and Irving St., 2-in. asphalt covering over 6-in. concrete base.

Tex., Cameron — Milam County plans additional 4-in. gravel surfacing on State Highway No. 36, between Little River and Burleson County line; A. F. Mitchell, County Engr.; Jeff T. Kemp, County Judge.

Tex., Celina—City plans street paving; will vote July 12 on \$20,000 bonds; J. Edgar Ousley, Mayor.

Tex., Clarksville—Red River County plans 18-ft. concrete pavement on section of State Highway No. 5, between Detroit and Lamar County line; A. L. Goode, County Engr.; Geo. Morrison, County Judge.

Tex., Dallas—Details under Land Developments.

Tex., El Paso—El Paso County let contract for 4 roads as follows: To El Paso Bitulithic Co., Pledras St. and G. H. tracks, .99 mi. concrete and maricopa slab, Porter road, \$27,547, and .34 mi. 2-in. bituminous top, 5-in. concrete base, McNary road, \$10,743; Southwestern Willite Co., 2-in. bituminous top, 5-in. concrete base, Remount Road, \$8489, and Byron St. Road, \$10,026; both contractors from El Paso.*

Tex., Floresville—Wilson County plans 12.12 mi. bituminous macadam pavement on State Highway No. 81, between Bexar County line and Old Sutherland Springs, approximate cost \$200,000; F. E. Hess, County Engr.; J. E. Canfield, County Judge.

Tex., Georgetown—Williamson County plans grading and gravel surfacing 11 mi. Taylor-Copeland road, including reinforced concrete bridge across Brushy Creek, and 5 creosoted pile trestle and reinforced concrete culverts, estimated cost \$140,000; M. C. Welborn, County Engr.; F. D. Love, County Judge.

Tex., Georgetown—Williamson County will receive bids July 14 for 9.29 mi. 4-in. rock surface, with 1-in. bituminous topping, 18-ft. wide, on State Highway No. 2, Georgetown-Jarrell road, 94,124 sq. yds. bituminous topping; M. C. Welborn, Res. Engr.; F. D. Love, County Judge.

Tex., Henrietta—Clay County Road Dist. No. 7 plans road building; will vote July 8 on \$60,000 bonds; D. M. Puckett, County Engr.; J. F. Vaden, County Judge.

Tex., Highland Park — Flippen-Prather Realty Co. plans paving streets in Highland Park West Addition.

Tex., Lufkin—Angelina County will receive bids July 15 for 15.64 mi. State Highway No. 63, between Zavalla and Jasper County line, 105,990.1 cu. yds. roadway and borrow excavation; 30,075 lbs. reinforcing

steel; G. R. Abney, County Engr.; J. T. Moroney, County Judge.

Tex., Marshall—Harrison County will receive bids July 1 to grade and install pipe culverts and build bridges and culverts, 121,590 cu. yd. grading; 150 cu. yd. solid rock excavation; 1355 cu. yd. structural excavation; plans, etc., from W. J. Warren, County Engr., Hallsville; John W. Scott, County Judge, Marshall.

Tex., McAllen—City plans street paving; will vote June 28 on \$60,000 bonds; F. B. Freeland, Mayor.

Tex., Normangee—Leon County plans road building; voted \$140,000 bonds. Address County Commrs.*

Tex., Orange—Orange County will receive bids soon for .11 mi. 18-ft. concrete pavement on State Highway No. 3, estimated cost \$21,500; J. E. Johnson, County Engr.; E. S. McCaever, County Judge.

Tex., Palestine — Anderson County plans building Neches and Elkhart Highways; concrete. Address County Commrs.

Tex., Rockport—Aransas County plans road building; voted \$250,000 bonds. Address County Commrs.

Tex., Stephenville — Erath County plans road building in Stephenville-Bluff Dale Road Dist.; voted \$35,000 bonds; A. P. Young, County Judge.

Tex., Sulphur Springs — Hopkins County plans grading and constructing drainage structures on 8.3 mi. State Highway No. 1, estimated cost \$70,000; J. S. Riegan, County Engr.; R. E. Bertram, County Judge.

Tex., Sweetwater—Nolan County let contract to Carlisle & Gray, Blackwell, to grade Roscoe-Maryneal road; to A. Jameson, Brownwood, for bridges.

Tex., Wharton—Wharton County plans 18-ft. concrete pavement on State Highway No. 12, across County, estimated cost \$1,300,000; W. G. Davis, County Judge.

Va., Richmond—Henrico County, Tuckahoe Dist., plans acquiring and building Grove road from Westhampton to Three Chopt road, and improving Three Chopt road to Ridge Church; voted \$175,000 bonds. Address S. B. Waddell.*

W. Va., Charleston—City received low bids from Nicholson & Duty to pave following streets: Marshall, N. Fourteenth, from West Virginia to Alpha, Virginia Ave., Hogan Lane, Hamil Ave. from Twenty-fourth to Twenty-fifth, Webster St.; from T. P. Keenan, Goff Ave. from Sixteenth to Seventeenth, Hickman St., Simpson Ave. from Buena Vista Ave., Parrill Court, Summers St., Wilson St. and Lynn Ave. Address The Mayor.

W. Va., Fairmont—Marion County Court will receive bids July 16 for 8 roads in Paw Paw Dist. and for 11 roads in Lincoln Dist. as follows: Paw Paw Dist No. 1, Sec. 1, 1.18 mi. from Rivesville towards Parkers Run; No. 2, Sec. 1, 2 mi. from Rivesville toward Baxter; Sec. 2, 2.5 mi. from Baxter toward Hoodsville; No. 2, Sec. 2, 2.5 mi. from Hoodsville toward Shuman's Run; No. 3, Sec. 1, 2.5 mi. from Baxter toward Grant-Town; No. 4, Sec. 1, 1 mi. from Wheeling and Fairmont Turnpike up Robinson's Run; No. 5, Sec. 1, 1.13 mi. from Fairview up Benefield Fork; No. 6, Sec. 1, 1.13 mi. Fairmont and Wheeling Turnpike from end of present concrete road; plans from Frank J. Wilfong, Dist. Road Engr.; Lincoln Dist., grade, drain and pave; No. 1-A, 1.7 mi. Jintown road; No. 1-B, 1 mi. Fairview Pike; No. 2, 2.5 mi. Plum Run road; No. 3, .7 mi. East Run road; No. 4-A, 1 mi. Helens Run road between Bethlehem and Davis; No. 5, 1 mi. Carolina road; No. 6, 1.5 mi. Teverbaugh road; No. 7, 1.8 mi. Bingham road; No. 8, .24 mi. Tho-

burn road; No. 9, .51 mi. Everson road; No. 4-B, 1.23 mi. Helens road, between Farmington and Ida May; plans, etc., from Lee N. Satterfield, Clk., and B. H. Palmer, County Road Engr., Fairmont.*

W. Va., Fairmont—Marion County, Mannington Dist., will receive bids July 18 to grade, drain and pave 12 roads as follows: No. 1, 5 mi. Buffalo road; No. 2, 1 mi. Warrior Fork; No. 3, 2.7 mi. artholomew Fork; No. 4, 1.2 mi. Owen Davy; No. 5, 5 mi. Whetstone; No. 6, 2.4 mi. Dents Run road; No. 7, 1.4 mi. Campbells Run; 1 mi. State Fork; No. 12, .5 mi. Mud Lick Run; No. 9, 1.4 mi. Flat Run; No. 10, .8 mi. Salt Lick Run; No. 11, 3.2 mi. Mannington-Clarksburg Turnpike; plans, etc., from Lee N. Satterfield and B. H. Palmer, County Engr.*

W. Va., Huntington — City let contracts for street paving as follows: Eighth Ave. extension to Starkey property, concrete base, 4-in. brick, asphalt filler, Gerchow & McGinnis, \$13,223; to Duncan & Griffith, Chase, from Camden road to Court St.; Fourth from Twelfth to Thirteenth, \$6054; George Hinkle, Underwood from Nineteenth to Twentieth, \$10,272; A. B. Maupin, City Engineer.*

W. Va., Huntington—Details under Land Developments.

W. Va., Huntington—City let contract to Andrews Asphalt Paving Co. to pave Woodland Drive from Lamie property to Fairfax Court; A. B. Maupin, City Engr.*

W. Va., Lewisburg—Greenbrier County plans 2 roads as follows: Grade and improve Old Nicholas road from Summersville to Hughes Bridge; improve road from Nallen to Hughes Bridge; plans bond issue. Address County Commrs.

W. Va., Weston—Lewis County plans road improvements in Court House Dist.; contemplates \$400,000 bond issue. Address County Commrs.

W. Va., Williamson—Mingo County let contracts for 2 roads as follows: Grade and drain to width of 18-ft., Naugatuck-Duncan Fork road, Project 18-A-B-C, Ira Webb, Williamson, \$59,908; grade and drain to width 18-ft., Burch-Track Creek road, Project 27, Waugh & Longley, Williamson, \$58,546.*

Sewer Construction

Ala., Florence—Details under Road and Street Construction.

Ala., Phenix City—Details under Road and Street Construction.

Ala., Tallassee—Details under Textile Mills.

Ark., Fort Smith—City is having plans prepared for installation of sewage line in District No. 2. Address The Mayor.

Ark., Little Rock — Board of Commrs., Sewer Improvement Dist. No. 94, opens bids June 23 for construction of sanitary sewers; approximate quantities include furnishing and laying 11,400 lin. ft. of trunk sewer ranging in size from 15 to 36-in., trenching and back-filling cuts 0 to 26 ft., 73 manholes, repairs and renewal of lateral sewers 6 to 12-in. and other items; V. P. Knott, Engr., 407 Southern Trust Bldg.

Ark., Little Rock—Details under Road and Street Construction.

Fla., Bartow—City let contract to West Construction Co., Chattanooga, Tenn., for paving, including storm sewers, curbs and gutters.*

Fla., Bradentown — Details under Water Works.

Fla., Daytona Beach—City received low bids from Dysard Construction Co., Austell Bldg., Atlanta, Ga., at \$37,783 for sewerage construction.*

Fla., Gainesville—Details under Road and Street Construction.

Fla., Ocala—City votes Aug. 5 on \$75,000 sewer bonds. Address The Mayor.

Fla., Sarasota—City, J. R. Brumby, Commr. of Public Works, opens bids June 23 to furnish labor and material to complete sanitary sewer system on Lemon, Pineapple, Strawberry Aves. and adjacent streets; work consists of approximately 5650 ft. of 8 to 24-in. clay or concrete pipe; 120 ft. of 12-in. cast iron pipe; 9 Ys; 18 manholes and 17 catch basins with necessary laterals.

Fla., Seabreeze—Town, P. D. Gold, Mayor, will receive bids July 9 to construct approximately 18,000 lin. ft. of storm drains, 24-in. to 10-in. with accessories; approximately 4000 lin. ft. of 6-in. water mains with specials and accessories; one 282,000 gal. steel water tanks and foundations all complete; N. A. Hotard, Engr., Lutz Bldg., New Smyrna, Fla.

Fla., Tampa—Details under Land Developments.

Md., Ridgeley—Details under Water Works.

Md., Salisbury — Details under Water Works.

Mo., Columbia—City let contract at \$12,302 to Grace Barkwell for constructing sewers in Dist. No. 58.

S. C., Denmark — City, J. E. Stedman, Mayor, receives bids July 8 for material and labor for constructing sanitary sewer system to cost \$30,000; Ryan Engineering Co., Engineers, Arcade Bldg., Columbia, S. C.

Tenn., Jackson—Details under Road and Street Construction.

Tex., Dallas—Details under Land Developments.

Tex., Fort Worth—Details under Land Developments.

Tex., Palestine—A. M. Burns has contract for sewer extension on North Jackson St.

Tex., San Antonio—City will complete sewers on Grand Ave. from Ave. D to San Antonio River, Peach St. main and laterals from Goliad St. to river, Highland Park sewers from Highland Park to creek at Presa and School Sts., on Agarita from Main to McCullough Sts., on Agarita and San Pedro to the San Pedro creek and on Medina St. from Commerce to Vera Cruz, total cost \$274,000.

W. Va., Huntington—Details under Land Developments.

Telephone Systems

Fla., Jacksonville—Southern Bell Telephone Co., main office Atlanta, Ga., John L. Moore, Florida Plant Supt., will construct toll line between Gainesville and Brooksville, Fla.; reconstruction of pole route, erect two additional copper circuits from Jacksonville to Tampa, via Baldwin, Gainesville, Dunnellon and Brooksville, estimated cost \$150,000; work to be completed by Dec. 1, 1924.*

Fla., St. Petersburg—Peninsular Telephone Co. let contract to Victor Boeke to construct \$115,000 telephone building on First Ave. N.; 4 stories, buff brick; M. Leo Elliott, Archt., Tampa, Fla.*

Ky., Louisville—Louisville Home Telephone Co., P. S. Prague, Pres., 523 South Fifth St., let contract to J. R. Russell, Louisville, to erect 2-story and basement addition, Highland Exchange, brick construction; estimated cost \$30,000; Nevin, Wischmeyer & Morgan, Archt., 1317 Starks Bldg.

Ky., Pikeville — Eastern Kentucky Home Telephone Co., capital \$100,000, incorporated by Stella W. Starkey, Ola Crutchfield, both Pikeville; Alfred D. Roberts, Charleston, W. Va.

Ky., Vortex—Vortex and Holly Home Telephone Co., incorporated by O. H. Miller, R. L. Holton, R. L. Patton.

Tex., Brownwood—West Texas Telephone Co. increased capital from \$400,000 to \$500,000.*

Textile Mills

Ala., Tallassee—Tallassee Mills (owned by Mount Vernon Woodberry Corp., Baltimore, Md.) let contract through office of J. E. Sirrine & Co., Engrs., Greenville, S. C., to Parks-Cramer Co., 2000 S. Boulevard, Charlotte, N. C., for constructing sprinkling heating and humidifying systems in new mills, and to Tucker & Laxon, Realty Bldg., Charlotte, for water works, sewerage plant and street improvements in mill village.*

N. C., Lexington—Wabena Mills has begun construction of 50 ft. addition to plant.

N. C., Old Fort—Joseph Bancroft & Sons Co., Wilmington, Del., has 450 acres at Old Fort and is reported to have had plans prepared for construction of bleachery and industrial town on plateau land east of Curtis Creek, near Asheville; included in plans are water and sewer systems; electric lights, schools, churches, etc. Wire from the company advises "construction of bleachery at Asheville not under consideration, nor likely in near future, no engineer or architect engaged."

S. C., Abbeville—Abbeville Cotton Mills is having 350 looms installed by Draper Corporation, Hopedale, Mass.

Tex., Fort Worth—Further advice from Chas. T. Main, 200 Devonshire St., Boston, Mass., engineer for Worth Mills, Lloyd H. McKee, Pres., states that company is proceeding with construction of cord fabric tire plant; main building, 3 story, 218x145 ft., standard mill construction with steel beams; picker house, 50x40 ft., 2 stories, standard mill construction with small boiler room for heating and a waste room; both buildings will have temporary ends so that buildings can be doubled in length in future; will also erect 1 story office building and 2 sections of 1 story storehouse for cotton and finished goods; land is available for any extension required; power will be purchased; mill is to be equipped with 16,000 ring spindles and all necessary preparatory machinery, 6000 twister spindles and cord looms; will move textile machinery from Fairhaven Mills, New Bedford, Mass.; Thos. S. Byrne, Fort Worth National Bldg., Fort Worth, has general contract.*

Water Works

Ala., Heflin — Alabama Water Co., 1012 American Trust Bldg., Birmingham, Ala. will extend water mains.

Ala., Tallassee—Details under Textile Mills.

Fla., Bradentown—City let contract to G. Skene, Bradentown, for extension of water lines and construction of sanitary sewers, septic tanks and storm sewers.*

Fla., Ocala—City votes Aug. 5 on \$40,000 water main extension. Address The Mayor.

Fla., Seabreeze—Details under Sewer Construction.

Fla., Tampa—Details under Land Developments.

Ky., Ashland—City, E. C. Means, Chrmn. of Water Comsn., contemplates voting on \$300,000 bonds for extending water system.

Md., Gaithersburg—Washington Suburban Sanitary Comsn., Evans Bldg., New York Ave., Washington, D. C., is making preliminary survey for installation of water and sewer system.

Md., Ridgeley—City, I. S. Detrick, Mayor, will probably vote in August on \$35,000 bonds for water and sewer.*

Md., Salisbury — City voted water and sewer bonds. Address The Mayor.*

Mo., St. Louis—Bond Supervisors approved two water works ordinances calling for \$2,350,000 appropriation for pipe line from

Howard's Bend to the city and the construction of dykes at new water works plant on Missouri river; David Kreyling, Chmn. Public Utilities Comm.*

N. C., Oxford—City, T. G. Stem, Mayor, opens bids July 10 for water works improvements consisting of the following: furnishing materials (except pipe and special castings), labor, equipment, etc. for trenching, laying and backfilling, approximately 6.1 mile of 12-in. and approximately 2000 ft. of 16-in. water main; furnishing all material and constructing auxiliary pumping station on Tar River, including receipt and installation of pumping and electrical equipment; Wm. C. Olsen, Engr., Masonic Temple Bldg., Raleigh, N. C.

Okla., Cromwell—Cromwell Water Works Co. capital \$10,000, incorporated by J. I. Cromwell, B. M. Gessel, Geo. E. Strauss.

S. C., Aiken—Comsn. of Public Works let contract at \$19,800 to R. D. Cole Manufacturing Co., Newnan, Ga., for standpipe with capacity of 600,000 gals., 30 ft. in diam., 114 ft. high, with base of solid concrete.

S. C., Fort Mill—City plans improvements to water supply. Address The Mayor.

Tenn., Cookeville—City, J. E. Ownes, Clk., will receive bids June 27 for water works extension. (See Machinery Wanted—Water Works Extensions.)

Tex., Crawford—City contemplates voting on bonds for improvements to water works and electric light plant. Address The Mayor.

Tex., Dallas—Details under Land Developments.*

Tex., El Paso—Edgar D. Park, 207 San Francisco St., El Paso, interested in construction of gravity pressure line distance of 124 miles from El Paso to Elephant Butte Dam to supply water for city; cost \$7,000,000.*

Tex., Fort Worth—Details under Land Developments.

Tex., Lufkin—City will vote July 15 on \$75,000 water extension and improvement bonds. C. N. Humason, City Mgs.*

W. Va., Huntington—Details under Land Developments.

Woodworking Plants

Ala., Mobile—Amercan Sash & Door Co., Inc., chartered by James F. Wolf, Springhill Ave., Leo F. Eldridge, 1251 Washington Ave., and Nellie J. Eldridge.

Md., Baltimore — Century Furniture Co., 1432 Pennsylvania Ave., capital \$100,000, incorporated by Chas. S. Levine, Sidney H. Schiffman and M. Rubin.

Mo., Kansas City—Anchor Furniture Co., capital \$10,000, incorporated by Samuel Friedman, 3531 Paseo St., Wm. H. Ward and others.

S. C., Marion—E. A. Burnham, Mullins, S. C., has acquired Altman Furniture Co.'s plant.

Tex., Dallas—Dallas Sash & Door Co., 304 N. Crowder St., increased capital from \$50,000 to \$100,000.

FIRE DAMAGE

Ark., Paragould—Walcott Mill & Gin Co.'s saw mill; loss about \$10,000.

Ark., Russell—E. E. Patterson Mercantile Co., J. F. Bland & Son store; store and residence of Mrs. Chas. Boyce; building occupied by Boyce Cafe and Mrs. McGilfrey's residence; loss \$25,000.

Ark., Stamps—Southwestern Bell Telephone Co.'s exchange; loss not estimated.

Fla., Bradentown — Bathing Pavilion at

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Cortez Beach owned by Cortez Bathing Pavilion, Inc.; loss \$20,000.

Fla., Chipley — The Shaver planing mill; loss not estimated.

Fla., Jacksonville—Putnam Lumber Co.'s Milldale St. dry kiln at the Ortega plant; loss \$15,000.

Fla., Jacksonville — Wooden bridge over Nassau River, connecting Duval and Nassau Counties, on Main St. road, State Road No. 3; C. S. Coe, Duval County Engr.

Fla., Jacksonville—Livingston Shoe Co., 11 W. Forsyth St.; McDaniel Haberdashery, 9 W. Forsyth St.; loss \$20,000.

Fla., Lachoochee—Jensen Building occupied by Miller Mercantile Co. and Almi Mercantile Co.; loss \$11,000.

Fla., Mayport—Main plant and several smaller buildings of Independent Fisheries Co.; estimated loss \$150,000.

Ga., Atlanta—Standard Gas Products Co.'s plant at Oakland City; estimated loss \$75,000.

Ga., Augusta — Clark Milling Co.'s flour mill on Thirteenth St.; estimated loss \$25,000.

Ga., Cairo—Cairo Ice & Cold Storage Co.'s plant; Armour Fertilizer Co.'s warehouse; \$20,000.

Ga., Columbus—Alsbrook Specialty Shop, Twelfth St.; loss \$35,000.

Ga., Sandersville—C. G. Rawlings' stable; Benton Massey's filling station; loss \$25,000.

La., Columbia—O. H. Kizer Lumber Co.'s planing mill; loss \$8,000.

La., New Orleans—Building at 1604 Dryades St., owned by Phillip Lichtenstein and John Roum of 1610 Baronne St. and occupied by United Ladies Wearing Apparel Co.; building owned by Isidore Heyman.

Md., Baltimore—Silver refinery at the Baltimore Copper Smelting & Rolling Co., Fourth St. and Fifth Ave.; loss not estimated.

Md., Cambridge — Liberty Manufacturing Co.'s plant on Race St.; loss \$175,000.

Miss., Ethel—Blane Grocery Store and 3 other stores and barber shop.

Miss., Meridian—Princess Building occupied by Princess Theater, offices and stores; loss \$75,000.

Mo., Conway—Barn on Five Bar Mule Ranch near Conway, owned by Col. R. P. Dickerson of Springfield; loss \$15,000.

N. C., Shelby — Thompson Lumber Co.'s plant, loss \$50,000.

Okla., Tulsa — Hutchinson Lumber Co.'s plant, 510 S. Franklin St., and other buildings; loss \$250,000.

S. C., McCormick—Bonded state warehouse, owned by Bank of McCormick.

S. C., Sumter — Palmetto Pigeon Plant; loss not estimated.

Tex., Austin—Rhody & Weber's store; loss \$10,000.

Tex., Corpus Christi—Taylor Grain & Elevator Co.'s building near Tex Mex Depot; estimated loss \$40,000.

Tex., Dallas—Barn of Fred Seman, 807 S. Carroll St., \$10,000.

Tex., Greenville — Perkins Brothers Dry Goods Store, loss \$100,000; Colonial Theatre, \$20,000; Woolworth Store and other business establishments \$80,000.

Damaged by Storm

Miss., Sumrall — J. J. Newman Lumber Co.'s plant; loss not estimated.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Little Rock—Benevolent Protective Order of Elks will erect \$50,000 building.

Ark., Stuttgart—Benevolent Protective Order of Elks, G. A. Meyer, Chmn., Bldg. Comm., will erect building; bids opened June 26.

Ga., Atlanta—Chas. H. Hobson, Healey Bldg., and Wm. J. J. Chase, 140 Peachtree St., both Atlanta, are reported as architects for \$1,500,000 Shrine Temple, Peachtree and Kimball Sts.; wire as follows: "No Shrine development yet."

Ga., Cartersville—Ancient Free and Accepted Masons plans to erect \$30,000 building; Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga.

Mo., Maplewood (Branch St. Louis) — Maplewood Masonic Lodge, 3100 Sutton Ave., L. M. Anderson, Sec., 7303 Myrtle Ave., will erect \$80,000 Masonic Temple, Manchester St. and Big Bend Rd.; 3 stories, brick; W. B. Ittner, Archt., 991 Locust St., St. Louis, reported to take bids about July 1.*

N. C., Hickory—Oasis Temple, A. A. O. N. M. S., A. G. Meyer, Pres., plans to erect mosque; Chas. C. Hartmann, Archt., Greensboro, N. C.; Wm. H. Peeps, Asso. Archt., Charlotte, N. C.

Tex., Dallas — Workmen's Circle Lyceum Assn., A. Landsberg, Sec., Forest Ave. near Ervay St., is receiving bids for brick veneer lodge building; 1 story, 40x85 ft., edge grain pine floors, reinforced concrete foundation, asphalt built-up roof, plaster board; F. J. Woerner & Co., Archts., 503 Central Bank Bldg., Dallas.*

W. Va., Huntington—Order of San Giovanni in Fiore, A. Pettito, Pres., purchased site, W. Main St., and plans to erect clubhouse.

Bank and Office

Ala., Birmingham — Alabama Industrial Realty Co., J. B. Munson, Vice-Pres., Southern Railway Bldg., Cincinnati, O., will erect 10-story office building; reinforced concrete finished in stone and brick, cost \$500,000; S. S. Godley, Archt., Southern Railway Bldg., Cincinnati; bids opened June 20.*

Fla., Daytona Beach—Volusia County Bond & Mortgage Co. plans to erect office building.

Fla., Tampa—Chas. H. Brown, Pres., Florida Mortgage, Title & Bonding Co., will erect \$1,000,000 to \$1,500,000 office building, Franklin and Lafayette Sts., after plans by B. C. Bonfoey, Tampa; 12 stories, brick, marble, stone, hollow tile, concrete and steel construction; portion of building to be occupied by Florida Mortgage, Title & Bonding Co.; quarters for Bank of Commerce on first floor.*

Ga., Canton—P. W. Jones will erect \$30,000 bank building; E. C. Seiz, Archt., Atlanta, Ga.

Ky., Whitesburg—Letcher State Bank advises they are not planning to erect new building soon.*

Mo., Columbia — W. Conley, care Conley-Meyers Bank, considers erecting \$75,000 addition to office building; 4 stories, 40x110 ft., brick and concrete.

Mo., St. Louis — Union-Eastern Trust Co., Arthur F. C. Blase, member Board of Directors, Arcade Bldg., will erect 2-story and basement bank building, 5325 Eastern Ave.; 50-ft. front, 18 offices on second floor; Klingensmith-Rice-Wilkins, Archts., St. Louis.

Mo., St. Louis—Ralston Purina Co., W. H. Danforth, Pres., 827 S. 8th St., is reported receiving bids on 6-story and basement, 120x52-ft., brick office building, 800 S. 8th St.; cost \$200,000; Mauren, Russell & Crowell, Archts., Chemical Bldg., St. Louis.

S. C., Greenville—Chamber of Commerce, John A. Russell, Chmn. Bldg. Comm., will receive bids July 3 (lately noted July 1), for 10-story office building, Main St.; cost \$250,000, brick, stone and steel; Beacham & LeGrand, Archts., North St.; J. E. Sirrine & Co., Asso. Archts.-Engrs., both Greenville; following contractors estimating: Fiske-Carter Construction Co.; Gallivan Building Co.; Potter & Shackelford, Inc.; Morris-McCoy Building Co.; Minter Homes Co., all Greenville; Hunkin-Conkey Construction Co., Cleveland, Ohio; Northeastern Construction Co., Charlotte, N. C.; Turner Construction Co., Atlanta, Ga.; separate bids for heating, plumbing and wiring.*

S. C., Rock Hill—Peoples National Bank, C. L. Cobb, Cashr., will remodel and erect 4-story and basement addition to building about 50 to 60 ft. long, 34 ft. wide; cost \$75,000; 25 additional offices; advises plans purchase of vault door, additional safety deposit boxes and other vault equipment, additional bank furniture and fixtures; now negotiating with architect.

Tex., Houston—Guaranty National Bank, John D. Dyer, Pres., will remodel building, 306 Main St., to provide banking quarters; A. C. Finn, Archt.-Constr. Supervisor, Goggan Bldg., Houston.

Tex., San Antonio — Commercial National Bank and Commercial Loan & Trust Co., Z. D. Bonner, Vice-Pres., has plans nearly completed by Phelps & DeWees, Gunter Bldg., San Antonio, for \$80,000 bank building, Travis and N. St. Marys Sts.; 62x168 ft., reinforced concrete, stone and brick, height equivalent to 4 stories.*

Churches

Ala., Birmingham—South Highlands M. E. Church, Nathan L. Miller, Atty., Chmn. Bldg. Comm., American Trust Bldg., rejected bids for semi-fireproof Sunday school building 21st St. and Magnolia Ave., and will receive new bids July 1; Italian renaissance type, L-shape, 100x150 ft., tile roof, vapor steam heat; separate bids for heating, plumbing and electrical work; plans from Bem Price, Archt., 1450 Age-Herald Bldg., Birmingham.*

D. C., Washington—Fifth Baptist Church, Dr. John E. Briggs, Pastor, 16th and O Sts., N. W., will erect \$50,000 addition to Sunday school as memorial to J. J. Darlington.

D. C., Washington—Mt. Vernon Seminary, Miss Hill, Sec., Nebraska Ave., N. W., will erect \$100,000 chapel; 1½ stories, stone; W. S. Bessell, Archt., 58 W. 49th St., New York City; reported ready for bids about July 1.

D. C., Washington—Wesley M. E. Church, Rev. J. C. Nicholson, Pastor, 1858 Mintwood Place, N. W., will erect \$200,000 church and parish house, Connecticut Ave. near Jenifer St., N. W.; 2 stories, 60x100 ft., stone and brick; Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass.

Fla., Leesburg — First Christian Church, T. G. Futch, Chmn. Bldg. Comm., plans to erect \$110,000 stucco, 30x50-ft. building with basement.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ga., Atlanta—Central Presbyterian Church, J. E. Kirk, Chmn. Bldg. Comm., will probably select architect in next week or 10 days for annex, gift of Mrs. John J. Eagan.*

Ga., Canton—Baptist Church plans to erect \$85,000 building; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.

Ga., Cartersville—East Side Baptist Church considers erecting \$25,000 building. Address The Pastor.

Ky., Ashland — Oakview M. E. Church, South, will erect \$25,000 building; Thos. F. Walston, Archt., Ashland.

Ky., Lebanon—United Presbyterian Church, Rev. W. A. Hopkins, Pastor, will receive bids about August 1 for Gothic type building; stone and hollow tile, slate roof, 3 stories, church 45x70x50 ft., Sunday school 40x60 ft., pine and carpet floors in former, maple in latter, stone foundation, interior tile, metal ceilings, plaster board, ventilators, steel sash and trim; plans completed July 1. Address Nevin, Wischmeyer & Morgan, Archts., Starks Bldg., Louisville, Ky.*

Ky., Owensboro—Church of the Nazarene will erect \$20,000 building. Address The Pastor.

Md., Easton — Trinity P. E. Cathedral, Rev. F. U. Bohanan, Rector, 311 North St., will erect rectory and addition to church; cost \$20,000, 2 stories, about 25x40 ft., hollow tile or stucco; Wm. D. Brinkloe, Architect, Easton.

Mo., Kansas City—South Prospect M. E. Church, care W. D. Kelley, 4033 Highland Ave., plans to erect foundation for 2-story and basement, 67x114-ft. brick and native stone building, 51st St. and Montgall Ave.; E. O. Bostrom, Archt., 623 Reliance Bldg., Kansas City.

Mo., Springfield — St. Paul's Methodist Church, Rev. J. W. Pearson, Pastor, 415 Walnut St., plans to erect \$50,000 addition to building, Walnut and Jefferson Sts.; 1 or 2 stories and basement, brick and stone.

Mo., St. Louis—Bethesda Evangelical Lutheran Church, Rev. V. Schenck, Pastor, Pine and Jennings Sts., will erect \$30,000 church and Sunday school building, Cedarwood and Ladora Rds.; 1 story, 46x55 ft., brick and stucco; Theo. Steinmeyer, Archt., International Life Bldg., St. Louis; will probably be ready to build about August 15.

Mo., St. Louis—Pilgrim Lutheran Church, Rev. A. Doerfler, Pastor, Fair and Florissant Sts., will alter and erect addition to building; cost \$10,000, 1 story, 20x50 ft. brick; Theo. Steinmeyer, Archt., International Life Bldg., St. Louis.

N. C., Durham — Duke's Chapel, Jas. E. Dickson, Chmn. Bldg. Comm., plans to erect building on site of present structure.

N. C., Durham—Trinity Avenue Presbyterian Church, Dr. Henry C. Carr, Chmn., Bldg. Comm., is having plans completed by Rose & Rose, 513 Trust Bldg., Durham, for building.*

Okla., Oklahoma City—Pilgrim Congregational Church, 14th and Classen Sts., will expend \$30,000 on new pipe organ and interior decorations. Address Organ Comm.

S. C., Seneca — Seneca Baptist Church Bldg. Comm., M. A. Wood, Chmn., will receive bids July 10 for building, Fair Play and S. 2nd Sts.; rough or faced brick, 72x110x30 ft., heavy tin or slate roof, rift pine floors; drawings and specifications from M. A. Wood & Co.'s store, Main St.; H. Beauchamp, Archt., 3701 Lexington St., Dallas, Tex.*

Tex., Austin—Hyde Park Baptist Church selected Dr. Harvey Beauchamp, 3704 Lexington St., Dallas, Tex., as architect for new building or remodeling present structure. Address The Pastor.*

Tex., Del Rio—First Baptist Church has plans ready or bids on 3-story and concrete basement building; date of closing not set; cost \$50,000, accommodate 1000, roof garden, dining room, etc.; Will N. Noonan, Archt., Moore Bldg., San Antonio, Tex.*

Tex., Graham — Presbyterian Church will erect \$50,000 brick building; 2 stories and concrete basement, stone trim, tile roof, art glass; T. J. Galbraith, Archt., Slaughter Bldg., Dallas, Tex.

Tex., Maxwell—Lutheran Church has low bid at \$19,999 from Moeller & Weilbacher, San Antonio, Tex., for brick and concrete building; low bid for plumbing, F. R. Leyenbecker, Lockhart, Tex., \$197, and wiring, Martin Wright Electric Co., San Antonio, \$324; Leo M. J. Dielmann, Archt., 306 E. Common St., San Antonio.*

Tex., Orange — Bruner Methodist Church will erect building, Gum St., Bruner addition. Address The Pastor.

Tex., Ropesville—Baptist Church, Rev. Mr. Sowell, Pastor, plans to erect \$11,000 building; frame, 1-story, 36x70 ft.

Tex., Waco—Highland Mission, J. J. Grier, Pres., W. R. Davidson, Vice-Pres., Cotton Exchange, 119 S. 4th St., organized and will erect 165x77-ft. building, 29th and Ethel Sts.

Tex., Winters—Methodist Church plans to erect \$40,000 building. Address The Pastor.

Va., Clifton Forge—Christian Church W. W. Pendleton, Chmn., Bldg. Comm., will let contract for brick Bible school building; plans and specifications ready.

Va., Graham — Christian Church plans to enlarge building. Address The Pastor.

Va., Roanoke—First Christian Church, Rev. O. L. Huffman, Pastor, 1117 Chapman Ave., S. W., advises contract is being prepared for \$20,000 brick and concrete Sunday school building; accommodate 1000, 3 stories, 36x50 ft., wood floors, concrete foundation, metal roof; H. M. Miller, Archt., 3½ Campbell Ave., S. W., Roanoke.*

Va., South Boston—Methodist Church plans to erect building. Address The Pastor.

City and County

Fla., Lakeland—City Hall, Auditorium, Library, Hospitals, Fire and Comfort Stations—City has plans by Franklin O. Adams, Jr., Tampa, Fla., for \$275,000 city hall and municipal auditorium, \$75,000 municipal library, \$40,000 combination jail and central fire station, fire station on south side and 1 on north side, \$45,000, \$10,000 comfort station in Munn Park, \$300,000 municipal hospital and \$25,000 negro hospital; bonds voted.*

Ky., Alexandria—Courthouse Remodeling—Campbell County plans to remodel 2-story brick courthouse; R. W. Rawlings Co., Archt.-Engr., 606 Monmouth St., Newport, Ky.

Md., Baltimore — Park Building — Park Board, J. Cookman Boyd, Pres., will erect \$30,000 combined elephant and monkey house at Druid Hill Park; Theo. Wells Pietsch, Archt., American Bldg., Baltimore; construction by Park Board.*

Md., Laurel—Municipal Building—City will vote July 8 on \$20,000 municipal building bonds. Address The Mayor.

Mo., Excelsior Springs—Courthouse Remodeling—Clay County plans to remodel and enlarge courthouse; work includes four 20-ft. wings, 2 stories high, giving 8 additional rooms; refinish exterior in stucco; cost \$44,000. Address County Commrs.

Mo., Milan—Courthouse—Election on \$150,000 courthouse bonds will be held July 8.

Mo., St. Louis—Market—Board of Public Service, Mr. Kinsey, Pres., will receive bids

July 22 for union market and public garage; cost about \$850,000, furnishings, etc., about \$150,000; 3 stories with 2 upper stories for garage; an additional \$200,000 appropriation will be needed to complete garage; blueprints or bids from Board of Public Service.*

N. C., Charlotte—Municipal Building, Court Building, Fire Department Headquarters — City Commrs., Edgar Read, City Clk., will receive bids July 8 for 3 buildings as follows: Municipal building, court building and fire department headquarters; separate bids for elevators, cell work and heating system plant; municipal building, 3 stories and basement, limestone, oak, marble and ornamental plaster interior; other two buildings, 2 stories and basement, light-colored brick; drawings and specifications on file at office Mr. Read, and may be had from Chas. C. Hook, Archt., Charlotte.*

N. C., Fayetteville—City Hall—City, H. McD. Robinson, Mayor, Dr. G. B. Patterson, Chmn. City Property Comm. of Board of Aldermen, is considering erecting of city hall.

N. C., Greensboro—Fire Station—City will erect \$50,000 central fire station, N. Green St., and install switchboard and \$18,000 fire alarm system; will also erect two \$5000 fire sub-stations; Simmonds & Sawyer, Archt., Greensboro.

S. C., Columbia—Courthouse—Richland County, John J. Earle, Chmn. of Commrs., Columbia, will probably soon vote on bonds for \$500,000 courthouse.*

S. C., Gaffney—Almshouse—Cherokee County Almshouse Comsn., Edw. Watson, Chmn., will erect 29-room almshouse; brick, steam heat, electric lights, running water; brick, etc., on ground.

S. C., Great Falls—Methodist Church, J. E. Brown, Chmn. Bldg. Comm., will probably let contract to Piedmont Contracting Co., Chester, S. C., for 2-story and basement building; hollow tile and face brick veneer, cast-stone trim, composition shingle roof; Casey & Fant, Archts., Anderson, S. C.

Tex., Dallas—Municipal Auditorium—City, Harvey S. Trewhitt, member Park Board, will, through co-operation of Dallas Chapter, American Institute of Architects, select architect for \$500,000 municipal auditorium in Gaston Park; accommodate about 15,000; Harry A. Olmsted, Pres., 4921 Gunius St., State Fair Assn.*

Tex., Dallas—Stadium—Park Department plans to expend \$12,500 to enlarge athletic stadium at Fair Park.

Tex., Kaufman—Jail Repairs—Kaufman County Commrs.' Court, J. E. Yates, County Auditor, will receive bids July 14 for permanent repairs to county jail; plans and specifications from Arthur A. Brown, Archt., 1008 Western Indemnity Bldg., Dallas, Tex., and from Mr. Yates.

Tex., Waco—Alterations—McLennan County Commrs., W. T. Lockwood, County Auditor, will receive bids July 1 (lately noted June 16) for alterations in courthouse to provide women's rest room; and on same date, bids for outfitting new toilet and lavatory for men; plans and specifications for inspection at Office County Engineer.*

Va., Petersburg—Armory—S. D. Craig, Bldg. Inspector, advises City is ready for bids on brick armory for Virginia National Guard, Ernest S. Jones, Maj.; 2 stories, 113 x129 ft., concrete and hardwood floors, brick foundation, metal doors, ornamental terra cotta, steel sash and trim, Barrett specification roof. Address Coopey Lal, Archt., 15 Law Bldg., Petersburg.*

Dwellings

Ark., Little Rock—C. C. Goodrum, 5017 T St., will erect residence, 5116 Q St.

Ark., Little Rock—Byarlay & Blanton will erect \$10,000 brick veneer residence, 494 Ridgeway St.

Ark., Little Rock — John Olsen, 214 W. 13th St., will erect \$15,000 brick veneer residence, 2220-22 W. 13th St.

D. C., Washington—Mrs. Clarence Ford, 1716 St. Marys Ave., will erect tile and brick residence, 1802 Washington St.; 3 stories and basement, 29x38 ft.; J. D. Folwell, Archt., Union Trust Bldg., Washington.

Fla., Cocoa — W. G. Paterson, Brevard Hotel, will erect residence, Willard St.; Richard W. Rummell, Jr., Archt., Courtenay, Fla.

Fla., Dade City—F. H. Allen plans to erect 3 dwellings.

Fla., Fort Lauderdale—John Lochrie plans to erect \$50,000 residence, Las Olas Beach; preparing plans.

Fla., Hollywood—John Price, Dover, N. J., will erect \$12,000 residence; Hollywood Finance & Construction Co., Contr., Hollywood.

Fla., Miami—Louis Zerentz will erect \$14,000 concrete block and stucco residence, N. E. 28th St. and 2nd Ave.; 2 stories.

Fla., Miami Beach—C. P. Bentley will erect \$50,000 residence, Star Island; 18 rooms, 4 fireplaces; W. C. DeGarmo, Archt., Miami Beach.

Fla., Ortega—Mark & Sheftall, Archts., 210 Clark Bldg., Jacksonville, Fla., have finished plans for \$35,000 residence; load bearing tile walls, concrete foundation, stucco finish, mission tile roof, hot water heat; are also preparing plans for 2 additional dwellings.

Ky., Paducah—Walter Beasley will erect \$10,000 residence and garage, Caldwell Ave.; 2 stories, 32x46 ft., brick; reported receiving bids.

Ky., Paducah—E. H. Wheeler will erect brick residence and garage, 17th St.; 1-story, 31x50 ft.; G. Tandy Smith, Archt., Guthrie Bldg., Paducah.

Fla., Sarasota — Owen Burns will erect 15 stucco bungalows, each with stucco garage; total cost \$69,000.

Fla., Sarasota—John D. Kellprest, Columbia State Bak, Oakland City, Ind., will erect winter residence, Valencia Terraces.

Fla., Sarasota—Daniel A. Stewart, Philadelphia, Pa., plans to erect residence, Golf Course Heights.

Fla., Tampa—City & Suburban Realty Co., 719½ Florida Ave., D. E. Knechtel, Pres., contemplates erecting about 150 dwellings.

Ga., Atlanta—E. H. Cox, 184 Ashby St., will erect \$10,000 residence; Edwards & Sayward, Archts., 101 Marietta St., Atlanta, receiving bids.

Ga., Atlanta—C. R. Mitchell will erect \$14,000 residence; Ivey & Crook, Archts., Candler Bldg., Atlanta; bids opened.

Ga., Atlanta—Sam Schoen, 928 Piedmont Ave., will erect \$14,000 residence, 13 Oakdale Rd.; 2 stories, brick veneer.

Ga., Atlanta—Walter Welborn will erect \$25,000 residence; A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta, receiving bids.

Ga., Atlanta—Douglas R. Wright will erect \$12,000 residence; Conklin & Mitchell, Archts., Candler Bldg., Atlanta.

Ga., Augusta—Mrs. L. G. Doughty 2321 Kings Way, will erect residence; Willis Irvin, Archt., Augusta.

Ga., Lindale—Massachusetts Cotton Mills of Georgia, A. P. Loring, Pres., reported to erect mill village of 150 dwellings; cost about \$450,000; Lockwood, Greene & Co., Archts., 24 Federal St., Boston, Mass.

Ga., Macon—Neville Birch will erect light colored buff brick residence; 1½ stories, variegated slate roof with tile ridges, hard-

wood floors, Arcola heat; A. Sidney Brown, Archt., 361½ Cotton Ave.; bids opened June 13.

Ga., Savannah—L. L. Golson will erect bungalow; Willis Irvin, Archt. Augusta, Ga.

Ky., Clay—J. L. Townsend will erect \$15,000 residence; 1 story and basement, 34x65 ft., brick; Harry Boyle & Co., Archts., 405 Furniture Bldg., Evansville, Ind.; work to start in about 20 to 30 days.

La., New Orleans — Mrs. Frank Gernon, 1839 Carondelet St., will erect raised duplex, Garfield and State Sts.; ready to build in about 90 days.

La., New Orleans—Mrs. Walter E. Bonafon, 4017 Iberville St., will erect bungalow, Canal Blvd. and Monroe St.; work to start about 60 days.

La., New Orleans—Joe Carouso purchased site, St. Bernard Ave. and Tonti St., and will erect 2 double cottages.

Md., Baltimore—Mrs. Annie E. Clark, 700 Gladstone Ave., Roland Park, will erect residence, S. side Somerset Rd. near University Parkway.

Md., Baltimore—John J. Kirkness, 118 E. 33rd St., will erect 9 brick dwellings, S. E. cor. Reisterstown Rd. and Manchester Ave.; 2 stories, 18x30x22 ft.; total cost \$32,000; also plans to erect dwellings, Reisterstown Rd. and Oakmont Ave.

Md., Baltimore—G. Bernard Lohmuller, Sr., Lohmuller Bldg. Co., 607 E. 33rd St., will erect 20 two-story brick dwellings, 2201-39 N. Pulaski St.; total cost \$50,000.

Md., Baltimore—John W. Lohmuller, 343 Calvert Bldg., will erect \$25,000 brick residence and garage, N. E. cor. Greenway and 39th St.; 2½ stories, 40x44x28 ft., brick; Fredk. Thomas, Archt., 726 E. 33rd St., Baltimore.

Md., Baltimore—Manhattan Realty Co. will erect 4 frame cottages, E. side Bromley Ave. N. of Fleetwood Ave.; 20x26x29 ft., 2 stories; total cost \$10,000.

Md., Baltimore — Palmer Realty Co. will erect 7 brick dwellings and garages, 2800-12 Villet Ave.

Md., Baltimore—Robt. Seff, 231 St. Paul Place, purchased tract, 1536 N. Glimor St., and will erect about 30 two-story brick porch-front dwellings for negroes.

Md., Baltimore—J. Clarke Matthai, Gunther Bldg., will erect residence, N. side Northway near Greenwood Rd.

Md., Baltimore—J. Bernard Brown, Forest Ave., will alter and erect additions to residence, Forest Ave. and Windsor Mill Rd.; 2 stories, 35x28 ft., frame; cost \$15,000; W. W. Werking, Archt., 4105 Penhurst Ave., Baltimore; will probably receive bids in Fall.

Md., Baltimore—Edw. L. Palmer, Archt., 513 N. Charles St., prepared plans for \$20,000 residence, Roland Park; 2½ stories, about 30x40 ft., brick.

Md., Baltimore — Geo. W. Schoenthals, Munsey Bldg., and others will erect 11 brick dwellings, 2805-25 W. Lafayette Ave.; 2 stories, 22x34x24 ft.; total cost \$25,000.

Md., Baltimore — H. Frank Sener, 3500 Gwynn Oak Ave., will erect \$20,000 residence, Poplar and Birch Rds., Larchmont.

Md., Baltimore—M. L. Snyder, care Snyder & Stuhl, 219 W. Baltimore St., will erect \$15,000 residence and garage, 3406 Springdale Ave.; 2 stories, 28x38 ft., and 1 story, 18x20 ft., hollow tile and stucco; Stanislaus Russell, Archt., 11 E. Lexington St., Baltimore.

Md., Baltimore — Calman J. Zamoiski, 'Rochester Apts.' will erect residences, Bancroft Rd. and Wirt Ave.

Miss., Brookhaven—Geo. Lowenthal plans to erect bungalow.

Md., Chevy Chase—Mrs. Rebecca Sibley, care R. L. Jennings, Contr., Oxford Bldg., 14th and H Sts., N. W., Washington D. C., will erect \$25,000 residence and garage, Connecticut Ave.; 2 stories and basement, 36x40 ft., brick.

Md., Havre de Grace—Dr. Chas. Foley will erect \$20,000 residence; 2½ stories, 30x40 ft., brick; G. R. Callis, Archt., Hearst Tower Bldg., Baltimore, Md.

Mo., Independence — Chas. H. Cook and Robt. P. Cook will erect bungalow, N. Spring St.

Mo., Independence—G. W. Eastwood will erect bungalow, 119 S. Union St.

Mo., Independence — John W. Fisk will erect frame residence, Liberty St.

Mo., Kansas City—Geo. Fuller Green, 920 Baltimore St., will erect 3 dwellings, 4837-41-45 Euclid St.

Mo., Kansas City—Jas. J. Hempfling, 811 Smith Ave., purchased tract, Ward Parkway, W. of Wornall Rd., and will erect duplex dwellings.

Mo., Kansas City—John E. Horn, Vice-Pres. Imperial Royalties Co., will erect English type residence, Drury Lane near Oakwood Rd.; work will probably start in Fall.

Mo., Kansas City—Jacob Nuff, 5009 Walnut St., will erect residence, 7 W. 52nd St.

Mo., Kansas City—Z. Tidono will erect brick duplex, 532 Troost St.

Mo., Kansas City—F. L. Wrenn, 618 Rialto Bldg., and Larkin W. Smith, 2111 N. 4th St., will erect number of dwellings for negroes, S. W. cor. 23rd St. and Tracy Ave.

Mo., Kansas City — W. W. Herman will erect 6 dwellings, 2110-12-14 E. 69th St. and 2123-25-27 E. 70th St.; total cost about \$20,000.

Mo., Kansas City—R. A. Kelly will erect residence, 5408 Rockhill St.

Mo., Kansas City—Geo. Knowles will erect dwelling, 410 W. 43rd St.

Mo., St. Louis—T. W. Van Schelach, care International Shoe Co., advises bids for residence were too high and will not build until reduced; cost about \$25,000.*

Mo., St. Louis—Keana & Franke, 1008 Chestnut St., St. Louis, Mo., will erect 10 bungalows.

Mo., St. Joseph—North St. Joseph Real Estate Loan & Investment Co. will erect 4 dwellings on 24th St.

N. C., Durham—Mrs. I. R. Strayhorn will erect \$10,000 residence, Hunt St.

N. C., Greensboro—J. F. Williams, 1282 Randolph Ave., will erect \$12,000 residence, Randolph Ave.

Okla., Oklahoma City—W. D. Palmer, 1627 W. 14th St., will erect brick, veneer residence 724 E. 15th St.

Okla., Oklahoma City—Lee Woodruff will erect brick duplex, 2821-23 N. Hudson St.

Okla., Oklahoma City — Geo. Riley will erect residence, 829 E. 7th St.

S. C., Columbia—L. L. Propst will erect \$25,000 residence; Willis Irvin, Archt., Augusta, Ga.

S. C., Spartanburg—W. B. Craven, Seranton, Pa., will erect residence.

S. C., Spartanburg—Brookwood Realty Co., Chas. H. Henry, Pres., will erect 3 cottages, Brookwood Terrace; total cost \$14,000; plans by Minter Homes Co., Greenville, S. C.

S. C., Sumter—H. C. Bland retained E. S. Draper, Landscape Archt.-Engr., 11 E. 5th St., Charlotte, N. C., to plan grounds for English type residence; tile roof, hardwood floors,

tile trim; Lafaye & Lafaye, Archts., Columbia, S. C.*

Tenn., Nashville—Geo. L. Hicks & Co., 3315 W. End will soon erect two \$5000 dwellings, Villa Place; 6 rooms, brick and stucco.

Tex., Kaufman—Mrs. M. H. Tappan will erect \$10,000 brick veneer residence, S. Houston St.; 6 rooms.

Tex., San Antonio—Mrs. Cecile G. Leverett, 216 E. Courtland Place, will erect 5-room frame bungalow, Park Ave. near Kendall St.

W. Va., Fairmont—C. E. Potter, 221 Virginia Ave., will erect \$5000 frame dwelling, Hillside Drive, and \$15,000 brick dwelling, Peacock Lane.

W. Va., Wheeling—St. Matthew's Episcopal Church, A. C. Stifel, member Rectory Comm., plans to erect rectory; also considering installing pipe organ in church.

Hospitals, Sanitariums. Etc

Ga., Atlanta—Hentz, Reid & Adler, Archts., 92½ N. Forsyth St., reported to soon receive bids for Scottish Rite Hospital for Crippled Children: concrete and tile roofing; cost about \$25,000.

Ga., Atlanta—E. C. Wachandorff, Archt., 620 Forsyth Bldg., Atlanta, Ga., is reported to receive bids in July for Blackman Terrace Health Resort, Dr. W. W. Blackman, 215 Myrtle St., Pres.; cost about \$225,000, fireproof, 4 or 5 stories, 187-ft. frontage, reinforced concrete or steel frame, promenade tile and pitched roofs; gymnasium and auditorium in main building; golf and tennis courts; separate residence for Dr. Blackman.*

Ky., Paducah—Riverside Hospital Comm., W. E. Cochran, Chmn., will receive bids July 1 for finishing and remodeling third floor of Riverside Hospital; separate bids on plumbing and heating; plans and specifications from G. Tandy Smith, Jr., Archt., Paducah.*

Md., Baltimore—Johns Hopkins Hospital, Dr. Winford H. Smith, Supt., will erect 8-story nurses' home, Monument and Wolfe Sts.; probably brick and limestone; Jos. Evans Sperry, Archt., 401 Calvert Bldg., Baltimore; details not decided.

N. C., Charlotte—Mecklenburg County Comms., J. B. McLaughlin, Chmn., are considering erection of tubercular hospital in vicinity of county home.

Tex., Abilene—Northwest Texas Conference of M. E. Church, South, W. J. Fulwiler, Henry James and H. O. Wooten, interested, plans to purchase Alexander Sanitarium, Dr. J. M. Alexander, Owner; will erect additional story with sun room on roof; will probably be operated in connection with McMurtry College, Abilene.

Tex., Fort Worth—Methodist Hospital Board opens bids June 26 for erection of concrete frame and all exterior brick, stone and terra cotta construction for hospital, Canon, Lake, 6th and Hornsby Sts.; 9 stories, X-shape, 17,000 sq. ft. area, tile and tar and gravel roof, tile, rubber, terrazzo and linoleum floors, steam heat, electric wiring, 2 elevators and 5 dumb waiters; W. G. Clarkson & Co., Archts., First National Bank Bldg., Fort Worth; foundation contract previously noted.*

Tex., Graham—City, R. A. Duncan, Chmn. Hospital Board, will erect \$50,000 hospital; face and common brick and reinforced concrete, 2 stories, 40x90 ft., tile roof, stone trim, terrazzo floors, plaster, art glass, wood floors over concrete; T. J. Galbraith, Archt., Slaughter Bldg., Dallas, Tex.*

Hotels and Apartments

Ark., Little Rock—S. J. Newcomb and associates selected Mann & Stern, A. O. U. W. Bldg., Little Rock, to prepare plans for 10

or 12-story, \$1,000,000, 400-room hotel, Seventh and Main Sts.; first unit to consist of 200 rooms to be built immediately; second floor will contain auditorium to seat about 1000.*

Ark., Little Rock—J. W. Shuffield, 1523 Cumberland St., contemplates erecting \$12,000, 2-story, brick apartment building, 215 E. 6th St.

Fla., Daytona—Franklin N. Wood contemplates erecting \$250,000 apartment hotel.

Fla., Daytona—Rio Vista Hotel & Improvement Co., Geo. F. Hurlburt, Pres., Jamestown, N. Y., has plans in progress by Martin L. Hampton, Miami, for \$300,000 3-story, semi-fireproof hotel at Rio Vista on the Halifax; hollow tile, interior tile, metal ceilings, hardwood and concrete floors, plaster board, metal doors, vaults, vault lights, mail chutes, ventilators, ornamental terra cotta, steel sash and trim, wire glass, rolling partitions; cost of furnishings \$100,000; contemplate establishing country club and 18-hole golf course; bids will be received within 30 days.*

Fla., Miami—Cornelius Thomas contemplates erecting \$50,000, 2-story, cement block, 38x90 ft., 12-family apartment building, 331 S. W. Seventh St.

Fla., Miami—Lester B. Manley will erect \$36,000, 3-story, 58x75 ft., 12-family apartment building, S. W. Eighth St.

Fla., Miami Beach—Dr. Frank Davis is moving residence at 29th St. and Collins Ave. to make way for proposed apartment house.

Fla., Miami Beach—Mrs. A. Crichton will erect apartment building on Drexel Ave.; cement block finished in colored stucco; W. F. Brown, Archt., Miami.

Fla., Miami Beach—Wm. R. Johnson has plans by W. F. Brown, Miami, for \$75,000 reinforced concrete and steel, 48-room hotel, Collins Ave. and Tenth St., to be known as Flora de Miami.

Fla., Stuart—Pelican Hotel Co., incorporated by W. I. Shuman, J. E. Taylor and others, have taken over land bounded by Osceola Ave., East End Ave., and the river as site for hollow tile and stucco tourist hotel; Pfeiffer & O'Reilly, Archts., Miami.*

Fla., West Palm Beach—Mrs. L. E. Vibber will award contract this week for \$50,000, 3-story, semi-Spanish type, hollow tile and stucco, 18-apartment building, South Olive t. and Trinity Place; Wm. Manly King, Archt., West Palm Beach.

Ga., Atlanta—Max Lonsberg, 633 N. Boulevard, will erect \$12,500, 2-story, brick veneer apartment building at 601 North Blvd.

Ga., Atlanta—Roy Smith, 176 Cascade Ave., will erect \$20,000, 2-story, brick veneer apartment at 67 Twelfth St.

Ga., Cairo—Cairo Hotel Co., Dr. W. A. Walker, Pres., opens bids June 28 for erecting hotel building; M. S. Stewart, Archt., Cairo.

Ga., Waycross—Stockholders of Winter Hotel Corp., to be formed, held meeting to form temporary organization and lay plans to begin work at once, selecting architect and offering bids for structure.

Ky., Whitesburg—Geo. Hogg, Roxana, Ky., will erect \$40,000 business building and hotel; contract at once.

La., Shreveport—Spence & Goldstein will erect 3 apartments, 900 block Princess Place; \$35,000, brick.

Md., Baltimore—Chas. J. Demmling, 1637 Fleet St., has revised plans in progress by Jno. R. Forsythe, 16 Lexington St., Baltimore, for \$70,000, 3-story and basement, 12-suite apartment building on Hilton St.

Miss., Pascagoula—E. V. Dunten, Sec. Pas-

cagoula Lions' Club, is promoting erection of hotel.

Miss., Starkville—Starkville Hotel Co. will open bids July 10 for erecting 3-story, \$60,000, 105x70 ft., brick and stucco hotel; N. W. Overstreet, Archt., Jackson, Miss.*

Mo., Kansas City—Phillip Minkin contemplates erecting two 48-family apartment buildings this summer at Ninth and Campbell Sts.; efficiency type, 4 stories.

Mo., Kansas City—N. W. Nible will erect \$25,000 duplex apartment building at 1219 W. 56th St.

Okla., Alva—Chamber of Commerce is considering proposition by out of town people to erect \$125,000, 3-story hotel.

S. C., Columbia—William Lykes, Jr., Pres., Chamber of Commerce, appointed committee composed of Wm. H. Carey, Chmn.; J. B. Roddey, E. A. Jenkins and others, to investigate needs and study plans for erecting hotel building.

Tex., Dallas—Arch Dedinger contemplates erecting \$44,000, 40-room, brick veneer, 8-apartment building, 3318-20-22 Douglas St.

Tex., Dallas—G. R. Ellis, 921 Ann St., will erect \$23,000, 40-room, brick veneer, 12-apartment building, 2820-22 South Ervay St.

Tex., Dallas—Kirkgard Building Co. will erect \$55,000, 36-room, brick veneer, 8-apartment building, 4235 Prescott St.

Tex., Dallas—J. J. Patterson, Western Indemnity Bldg., contemplates erecting \$33,000, 2-story, brick veneer apartment building, 202 N. Marsalis St.

Tex., Dallas—Nettie Smith contemplates erecting \$45,000, 48-room, brick veneer, 12-apartment building, 4417 Swiss St.

Tex., Dallas—Jack Tucker will erect \$10,000, 10-room, brick veneer, 2-apartment building, 4814 Swiss St.

W. Va., Bluefield—George Stovall contemplates erecting 4-story building at Bluefield Ave. and Mulberry St.; 2 store rooms and 20 apartments; Mahood & Van Dusen, Archts., Bluefield.

W. Va., Huntington—G. D. Miller and E. L. Williams leased N. W. cor. Fourth Ave. and 16th St., and contemplate erecting combination apartment house and business block.

Miscellaneous

Ark., Little Rock—W. D. Bass, 1904 N. Taylor St., will erect brick veneer building at 1508 West 8th St.

Fla., Bradenton—Pavilion—Cortez Bathing Pavilion, Inc., care Henry Curry, is reported to contemplate rebuilding bathing pavilion at Cortez Beach, recently destroyed by fire at \$20,000 loss.

Fla., Fort Pierce—R. N. Koblegard will erect building on site Airdome Theater; Spanish type; arcade through center and patio in rear.

Fla., Hollywood—Arcade—Walter C. Kriekhaus contemplates erecting arcade on Circle, to contain 2 large store rooms and 12 smaller rooms.

Fla., Jacksonville—Clubhouse—Seminole Canoe Club, Earl Manier, Pres., Hogan and Duval Sts., contemplates erecting boathouse and clubhouse.

Fla., Kissimmee—Amusement Park and Tourist Camp—Paul C. Rouse has signed contract with owners of Hammock Grove property, to manage proposed amusement park and tourist camp, to be known as Idora Park; plans include cottages for tourists, building to contain auditorium and dance floor, laundry facilities, cooking ranges, etc.

Ky., Greenville—Clubhouse—Greenville Country Club has plans in progress by Joseph

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

& Joseph, Francis Bldg., Louisville, for erecting clubhouse.

Miss., Jackson—Clubhouse—Country Club contemplates extensive improvements to grounds and building to cost \$25,000.

Mo., Cassville — Clubhouse — Roaring River Rod & Gun Club, care R. E. Brume, Pres., 509 Commerce Bldg., Kansas City, has plans in progress by Jas. O. Hogg, 101 Wal-six Bldg., Kansas City, for \$50,000, 2-story, 56x100 ft., stone and timber clubhouse; will mature this summer or fall.

Okla., Norman—Cafe—Miss Eula Fullerton and Mrs. Catheryn Hardy Morrison contemplate erecting \$17,000 Old English Inn.

Okla., Pawhuska — Community House — Men's Brotherhood of the Methodist Church is promoting erection of community house to be used by clubs and civic organizations.

Okla., Tulsa — Clubhouse — Sand Springs Country Club, A. T. W. Kerr, Pres., 1812 S. Cheyenne St., contemplates construction during coming winter of clubhouse; 9-hole golf course and swimming pool under construction.

Tex., Dallas—C. J. O'Connor 3708 Lemmon St., will erect \$29,000, 3-story brick building at 1414 York St.

Tex., Marshall — Fair Buildings — Central East Texas Fair, Bryan Blalock, Sec., has plans for erecting this summer a livestock building 25x200 ft., hog and sheep building 50x80 ft., poultry building 30x90 ft., main exhibit building 100x200 ft.

Va., Salem—Orphanage—Lutheran Orphan Home Board of Trustees contemplate campaign to raise \$250,000 for erecting orphanage.

Railway Stations, Sheds, Etc.

Ala., Bolling—Alabama Public Service Comm. approved plans by Frank Lockwood, Montgomery, for \$10,000 depot, to be erected by Bolling Farms, Inc.

Ark., Fayetteville—St. Louis-San Francisco Railway Co., F. G. Jonah, Ch. Engr., St. Louis, Mo., is reported to contemplate erecting passenger and freight stations; passenger station to cost about \$75,000.

Schools

Ala., Brewton—Board of Education, Leon G. Brooks, Chmn., opened bids June 25 for erecting high school building.

Ark., Paragould—School Board authorized Mann & Stern, Little Rock, to prepare plans for \$175,000 high school building.*

Fla., Cresent City—Board of Trustees will call election at once to vote \$50,000 school bonds.

Ga., Augusta—Paine College has plans in progress by Tisdale, Stone & Pinso, Nashville, Tenn., for \$50,000, 3-story, brick walls, semi-fireproof home economics building; built-up composition roof, brick foundation, hardwood and concrete floors, plaster board, interior tile, 2-pipe steam or vapor heat, 1 freight or trunk lift elevator.

Ga., Ball Ground—Cherokee County Board of Education, Canton, contemplates erecting grammar school building; contractors bidding are: C. W. Bernhardt, 174 Hunnicut St.; Paul Wesley, Candler Annex, both Atlanta; New Winder Lumber Co., Winder, Ga., and L. J. Barrett, Dalton, Ga.; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta. Date of opening not set.

Ga., Thomasville—Vashti Industrial School has plans by Tisdale, Stone & Pinson, 419 Independent Life Bldg., Nashville, Tenn., for \$20,000, 2-story, stucco on brick veneer dining hall; composition shingle roof, brick foundation, T. shape, 38x65 and 36x40 ft., hardwood floors, interior tile, 1-pipe steam heat; bids open June 28.

Ga., Waycross—E. K. Bennett is chairman of committee in charge of campaign to raise \$250,000 for enlarging campus, erecting 2 dormitories and creating \$100,000 endowment for Piedmont Institute.

Ky., Ashland—Board of Education contem-plate raising \$35,000 for erecting remainder of Margaret Coles Junior High School.

Ky., Danville — Kentucky School for the Deaf, care Augustus Rogers, has plans in progress by Frankel & Curtis, Hernando Bldg., Lexington, Ky., for \$50,000, 1-story and basement, 68x80 ft., gymnasium building.

La., Baton Rouge—Louisiana State University, R. L. Himes, Sec., 942 Convention St., opens bids June 27 for laying water pipe, with hydrants and connections and erecting 2 feed barns as per plans and specifications that may be had at office of C. V. Link, Archt., State Capitol, Baton Rouge.*

La., Donaldsonville — Ascension Parish Board, H. P. Broussard, Sec., will open bids July 9 for erecting grade school and repairs to present high school and grade school at Smoke Bend; Wm. R. Burk, Archt., 411 Balter Bldg., New Orleans, La.*

Md., Baltimore—Lyndhurst Improvement Assn., Jas. A. Wheatley, Pres., 410 Norman Ave., was promised by Mayor Howard W. Jackson that a new elementary school will be erected at Harlem and Lyndhurst Aves., to be completed next year.

Md., Ellicott City—Howard County Board of Education, W. C. Phillips, Sec., will soon take bids for \$120,000, 2-story and basement, brick high and grade school building; Theo. Wells Pietsch, Archt., American Bldg., Baltimore.*

Md., Towson—Baltimore County plans to vote on \$1,500,000 school bonds in November; address County Commrs., Towson.

Miss., Ellisville—Jones County Board of Supervisors has defeated \$100,000 bond issue for erecting Junior College in connection with Agricultural High School; C. W. Jenkins, Supt. of Education.*

Mo., East Prairie—Board of Education of Cade School District No. 20, New Madrid County, care J. V. Dover, Pres., has plans in progress by F. F. Lindsay, McCoy-Tanner Bldg., Sikeston, for \$10,000, 1-story, 42x48 ft., school building.

Mo., Hickman Mills—Board of Education, care Jno. M. Slaughter, Clerk, is taking bids for erecting \$17,000, 1-story, 26x30 ft., brick school addition; W. H. Sayler, Archt., 306 Mutual Bldg., Kansas City, Mo.

Mo., Kansas City—Board of Education, J. B. Jackson, Jr., Sec., Library Bldg., will have plans for bids about July 1, for \$1,500,000, 4-story and basement, 200x250 ft., Native stone high school building, 48th St. and The Paseo; C. A. Smith, Archt., 609 Finance Bldg.; J. A. Brady, Mech. Engr., Library Bldg.; both Kansas City.*

Mo., Kirksville — Board of Regents for Northeast Missouri State Teachers' College, Judge J. A. Cooley, Sec., will open bids June 29 for 3-story fireproof library building; for plans and specifications address R. H. Sanne-man, Lee Bldg., Kansas City, Mo.*

Mo., Montrose—Board of Education, C. M. Clark, Sec., contemplates erecting \$20,000, 2-story, 40x62 ft., brick and stone school addition; W. H. Sayler, Archt., 306 Mutual Bldg., Kansas City, will take bids about June 29; bonds recently voted.*

Mo., Raytown—Board of Education has sold \$27,000 bonds voted by Consolidated School District No. 2 for erecting additional school buildings.

Mo., St. Louis—St. Louis School for Feeble Minded, care Board of Public Service, E. R.

Kinsey, Pres., City Hall, will take bids about July 1 for erecting \$50,000, 2-story and basement, 165x50 ft., brick mechanical trades shop, Bellefontaine Farms; E. E. Christopher, Archt.; L. R. Bowen, Ch. Engr.; both City Hall, St. Louis.

Mo., Silkeston—Board of Education, Frank Mount, Pres., is taking bids for \$25,000, 3-story, 25x65 ft., brick high school addition; M. J. Laubis, Archt., Poplar Bluff Nat'l Bank Bldg., Poplar Bluff, Mo. Recently voted \$15,000 bonds.*

N. C., Andrews—School Board, Dr. W. C. Morrow, Chmn., will open bids June 30 for 12-room brick school building; heating and plumbing will be let separate; plans and specifications may be secured from Frank B. Simpson, Archt., 220½ Fayetteville St., Raleigh, N. C.*

N. C., Asheville—Buncombe County Board of Education, Frank L. Wells, Supt., opened bids June 23 for 4-room addition to Woodfin High School; Smith & Carrier, Archts., College St., Asheville, N. C.

N. C., Charlotte — School Board contem-plates addition of 156 rooms to present school system; recently voted \$1,000,000 bonds.*

N. C., Lexington—City will vote July 22 on \$150,000 bonds for erecting elementary school building. Address School Board.

N. C., Lumberton—Ten-Mile (Robeson County) Trustees will open bids June 27 for 4-room addition to high school; brick, tile and frame, tin roof, wood floors; W. D. Harper, Archt., Florence, S. C.

N. C., Ogden—Clay County Board of Education, Allen J. Bell, Supt., Hayesville, will open bids July 7 for erecting brick or brick veneer school building.

N. C., Raleigh—Pres. of North Carolina State College of Agriculture & Engineering opened bids June 24 for alteration to Pat-terson Hall; Hobart Upjohn, Archt., Grand Central Terminal, New York City.

S. C., Campton—Campton School District voted \$20,000 bonds for erecting brick, 2-story fireproof school building. Address Board of Trustees.

S. C., Greenville—Furman University, E. W. Brockman, Bus. Mgr., contemplate re-paring and overhauling McGee Hall.

S. C., Summerville — School Board has plans by Lafaye & Lafaye, Columbia, and is taking bids for High School building.

Tenn., Johnson City—Washington County Election Commrs. will call election August 11 to vote \$350,000 bonds for erecting high school building, additions to grammar school buildings, auditorium to Langston high school.*

Tenn., Nashville—Davidson County Board of Education contemplates erecting several school building or enlarging present build-ings in Harding Road section.

Tenn., Knoxville—Knox County Board of Education contemplates erecting school build-ing at Asbury.

Tenn., Sewanee—Board of Trustees of the University of the South authorized erection of dormitory to be known as Jno. B. Cannon Hall.

Tex., Asherton—Board of Education will open bids June 30 for erecting \$30,000, 2-story, brick and concrete school building; Henry T. Phelps, Archt., Hicks Bldg., Saa Antonio. Lately noted to open bids June 21.*

Tex., Bono—Board of Education has plans in progress by R. S. Glynn, Cisco, Tex., for \$30,000, brick and concrete, 1-story, 7-room and auditorium school building.

Tex., Farmersville — Farmersville Independent School District voted \$80,000 bonds for erecting high school building. Address Pres., Board of Trustees.*

Tex., Galveston — Texas Pharmaceutical Assn., C. Scott Keene, first Vice-Pres., endorsed erection of \$500,000 pharmacy building, through funds raised by pharmacists of Texas, and to be operated as part of University of Texas.*

Tex., Hughes Springs—Hughes Springs Independent School District, C. E. Watson, Pres., opened bids June 20 for erecting 2-story school building.

Tex., Kemp — Kemp School District will vote July 5 on \$44,000 bonds for erecting school building; address Pres., Board of Trustees.*

Tex., Kilgore—Kilgore School District will vote on bonds July 2 for erecting addition to school building.

Tex., New Braunfels—New Braunfels Independent School District voted \$90,000 bonds for erecting 2 ward schools and remodeling building into high school. Address Pres., Board of Trustees.*

Tex., Perico—Perico-Mountain View Consolidated School District voted \$30,000 bonds for erecting school building; address Pres., Board of Trustees.

Tex., Port Neches—Board of Trustees, C. C. Hawkins, Pres., will call election July 12 to vote on \$148,000 bonds for erecting school building; Page Brothers, Archts., Austin.*

Tex., San Angelo—City voted \$14,000 bonds for erecting school building.

Tex., Weslaco—Board of Education is receiving bids for erecting brick and concrete, 8-room school building.

Tex., Weatherford—Hon. Chas. E. Baughman, Austin, Grand Chancellor Knights of Pythias of Texas expects to break ground July 5 for dormitory for girls, to be known as H. P. Brown Memorial Building.

Va., Danville — School Board authorized Heard & Chesterman, Danville, to prepare plans for 3 school buildings.

Va., King William—King William County Board of Education opened bids June 19 for erecting school building on Tappahannock Highway, 6 miles from Court House; Linthicum & Linthicum, Archts., 117 W. Martin St., Raleigh, N. C.; address Everett Edwards, Sec., Sweetball.

Va., University—(Br. of Charlottesville)—University of Virginia, care of Edwin A. Alderman, Pres., contemplates transforming Fairweather gymnasium into home for department of art and architecture and for remodeling Peabody Hall; granted permission to Kappa Alpha fraternity to use site on Carr's Hill for construction of chapter house.

W. Va., Ansted—Board of Education of Mountain Cove District of Fayette County submitted plans for approval to state department of education for \$45,000 school building.

W. Va., Charleston—Board of Education will expend \$12,000 for fireproofing Kanawha School.

W. Va., Charleston—Board of Education of Charleston Independent School District, E. A. Babcock, Sec., will open bids July 10 for erecting Junior High school building, Charleston St. and Garvin Road; bids to be given as follows: general construction, plumbing and gasfitting, electric wiring, heating and ventilating and clock system; plans and specifications may be obtained from Warne, Tucker & Patteson, Archts., Masonic Temple, Charleston, W. Va.

W. Va., Lost Creek—Grant District Board of Education, J. C. McWhorter, Pres., or Edw. J. Wood & Son, Archts., Lowndes Bldg., Clarksburg, will receive bids until June 30 for erecting 2-story and basement boiler room building, containing 6 class rooms, stair, halls, etc.

W. Va., Parkersburg—Board of Education, E. Jno. Eckels, Pres., contemplates erecting \$30,000 Summer School gymnasium; Archt. not selected; Walker & Norwich, Survey Archt., Dayton, Ohio; contemplates \$12,000 gymnasium at McKinley School.

Stores

Ark., Little Rock—Jno. Schmelzer, 410 E. 12th St., will erect \$10,000, 1-story brick store building, 412 E. Markham St.

D. C., Washington—J. E. Cunningham Co., 314 7th St., N. W., will soon select architect for alterations to 3-story, 47x103 ft., brick store building, 314-16 7th St., N. W.; \$20,000.*

Fla., Tampa—M. D. Stone will erect \$10,000 brick store building, Nebraska Ave.

Ga., Atlanta—Gasper Johnson will remodel store building at cost of \$20,000; Daniell & Beattell, Archts., Healey Bldg., Atlanta, will soon receive bids.

Ky., Bardstown — Dr. J. B. Crume has plans in progress by C. C. & E. A. Weber, 1408 Ingalls Bldg., Cincinnati, Ohio, for remodeling store building; \$10,000.

Ky., Harlan—W. F. Hall will erect \$30,000 business building; contract within 2 weeks.

Ky., Whitesburg—J. A. Holbrook will erect store and business building on Main St.; contract in 2 weeks.

Ky., Whitesburg—W. E. Mattingley of Hazard, Ky., will erect brick building on Main St.; contract at once.

La., Baton Rouge—Dr. W. F. Peak, 3rd and Main Sts., is taking bids for \$14,000, 2-story, brick, 38x64 ft. store and office building; concrete and wood floors, built-up asphalt and paper roof, reinforced concrete foundation, metal ceilings, plaster board; T. E. Peak, Archt., 1974 Olive St., Baton Rouge.*

La., New Orleans—Jos. Clesi 2730 Royal St., opened bids for alterations to building at Royal and St. Ferdinand Sts.; P. A. Rod'ck, St. Charles & Palmer St., New Orleans, low bidder at \$21,083.45; Wm. E. Spink, Archt., Canal Commercial Bldg., New Orleans.*

Miss., Philadelphia—Williams Brothers contemplate erecting store building on site of present building; 90-ft. front of pressed brick and plate glass.

Miss., Tylertown—D. E. Lampton & Co. awarded contract to M. Dye, Columbia, Miss., to erect building to replace store destroyed by fire.

Mo., Kansas City—Houghton Furniture Co., care G. C. Minturn, Pres., 1221 Union Ave., is taking bids for remodeling 2-story and basement, 24x118 ft., brick store building, Union Ave. and Mulberry St.; \$10,000; H. F. Brandenburger, Archt., 612 Interstate Bldg., Kansas City.

Mo., Kansas City — C. G. Martin, 3236 Tracy St., will erect 1-story brick business building.

Mo., St. Louis—Theo. Steinmeyer, Archt., International Life Bldg., is preparing plans for \$12,000, 1-story, 25x90 ft., brick store and shop building, Cherokee and Oregon Aves.; owner's name withheld; will mature July 1.

Mo., St. Louis—L. V. Janet, 5444 Gravois St., has plans in progress by Cole & Birestadt, 4639 Dahlia Ave., St. Louis, for \$12,000, 2-story and basement, 30x54 ft., brick stores and apartment building, 5400 Gravois St.

N. C., Charlotte—A. J. Hagood contemplates erecting 2-story fireproof building.

N. C., Elizabeth City—N. G. Granby & Co. have razed building at Water & Mathew Sts., and contemplates replacing with brick structure.

S. C., Clanton—Dr. Arthur Johnson will erect brick store building on Second St.

Tenn., Memphis—J. R. Ellis, Central Bank Bldg., will make repairs to brick building on Lamar Ave. to contain 6 stores.

Tex., Dallas — Lakewood Investment Co. will erect \$10,000, 2 brick stores and 4 efficiency apartments.

Tex., Dallas—Edwin Bergin of Sulphur Springs, Mgr. of estate owning Eisenlohr Building on Main St., recently destroyed by fire, contemplates rebuilding.

Tex., Dallas—G. V. Lollar, 5702½ Price St., will erect \$10,000 brick store building, 2716-24 Greenville St.

Tex., Dallas — Rudolph Liebman contemplates rebuilding 3-story brick building, Elm and Murphy Sts., recently destroyed by fire; \$40,000.*

Tex., Harlingen—Mack Crenshaw is razing buildings on Jackson St. and will replace with 2-story brick stores and office building.

Tex., Houston—N. T. Masterson, Chronicle Bldg., will make repairs to brick building after fire to include new roof, Smith and Rusk Aves.; \$12,500.

Tex., Kaufman—Perkins Bros. Department Store recently purchased Clark Building and contemplates extensive improvements; new front, addition to rear, new fixtures and equipment.

Tex., Lamesa—Rix Furniture & Undertaking Co. contemplates erecting building to replace structure destroyed by fire.

Tex., San Antonio—Dr. A. A. Brown 719 Howard St., opened bids for erecting \$30,000, 2-story and basement, reinforced concrete and brick business building, So. Flores St.; General Jay DePuy low bidder at \$22,215; Arnold Bros. low on plumbing at \$456.52; Crowther Electric Co., low on electric work at \$449; American Elevator Co., low on elevator at \$2096; Seutter & Simmons, Archts., Moore Bldg., all San Antonio.*

Tex., San Antonio—Smith Bros. Development Co. contemplates erecting 1-story, fireproof, brick and concrete, 118x100 ft. building, St. Mary's St., Bowen's Island.

W. Va., Huntington—Real Estate Securities Co., G. D. Miller, Pres., contemplates erecting \$50,000 business block with apartments above at n. w. cor. Fourth Ave. and 16th St.

Theatres

Fla., St. Augustine—Paramount Enterprises, Inc., of New York and Miami, has preliminary plans by Jno. Ebersson, 212 E. Superior St., Chicago, Ill., for 10-story theater building at s. w. cor. E. Flagler St. and S. E. 2nd Ave.; plans will be complete July 10 and contract will be let soon after; 100 ft. frontage.*

S. C., Columbia—W. Bedford Moore, Jr., Treas. of Stage Co., is director of campaign to raise \$25,000 for erecting Town Theatre.

Warehouses

Ga., Atlanta—Cathcart Van & Storage Co. will erect warehouse; R. E. Snow & Co., Archts., Hurt Bldg., Atlanta, will soon take bids.

Mo., Kansas City—Pete Larsen will erect \$50,000, 2-story brick warehouse at 1719-25 Locust St.

N. C., High Point—High Point Builders' Supply Co. contemplates erecting warehouse.

Tex., Dallas—Alderman Co. has plans in progress by Sadler & Russell, Melba Bldg., Dallas, for 1 and 2-story, brick warehouse and office building on Walton St.; 147x48 ft. concrete floors.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Tex., Houston—District Grand Lodge No. 25, and District Grand Household of Ruth No. 13 of Texas, Negro Odd Fellows, will erect building, Prairie Ave. and Louisiana St.; 4 stories, fireproof; stores on ground floor, 6 auditoriums, etc.; Carl Curts, 2207 Congress St., Houston, contr. at \$247,500.

Tex., San Antonio—Elks' Club, 225 E. Pecan St., let contract at \$93,000 to Coleman & Jenkins for remodeling and additions to building, Pecan and Jefferson Sts.; Phelps & DeWees, Archts., Gunter Bldg., all San Antonio.

Bank and Office

Fla., Mt. Dora—Lake County Abstract & Title Guaratee Co. will erect \$15,000 fireproof, 50x75-ft., building; L. G. Coven, Contr., Tavares.

Fla., Titusville—Brevard Abstract & Title Insurance Co. will erect \$60,000 building; 1 story, 60x60 ft., reinforced concrete and tile; Pfeiffer & O'Reilly, Archts., Miami, Fla.

Fla., West Palm Beach—J. S. Wilson Building Co. will not erect 1-story office building as lately reported.*

Ga., Rome—First National Bank, Geo. F. Nixon, Pres., will expend \$50,000 to remodel 3 upper floors of bank and office building, the banking quarters now being remodeled at cost of \$75,000; C. E. Frazier, Archt., Candler Bldg., Atlanta, Ga.; Chas. Blackstock, Contr., Rome.*

La., Lafayette—Bank of Lafayette & Trust Co. let contract to P. Olivier & Son, Lafayette, for alterations and addition to building; brick, 2 stories, marble, tile and wood floors, concrete foundation, cost about \$25,000; Wm. T. Nolan, Archt., 1000 Canal-Commercial Bldg., New Orleans, La.*

La., Shreveport—York Safe & Lock Co., York, Pa. (M. L. Bath & Co., representatives, Shreveport), has contract for vault and safe deposit outfit for American National Bank; fixtures to St. Louis Bank Equipment Co., 811 Walnut St., St. Louis, Mo., cost about \$90,000; owner will remodel present building and erect \$35,000 annex; Jones, Roessle, Olschner & Welner, Archts., Ardis Bldg.; Glassell-Wilson Co., Contr., both Shreveport.*

Tex., Houston—Houston Land & Trust Co., 119 Main St., A. R. Cline, Sec.-Treas., let contract to T. Heidelberg, Houston, to remodel old Rice Bldg., Main St. and Franklin Ave.; cost \$127,186, including \$45,000 for new fixtures; Sanguinet, Staats, Hedrick & Gottlieb, Archts., Carter Bldg., Houston.*

Md., Baltimore—Chesapeake Bank, J. Monroe Holland, Pres., North Ave. and Ellamont St., will remodel ground floor and basement of building, 7 St. Paul St., for branch bank; Price Construction Co., Contr., Maryland Trust Bldg., Baltimore.

N. C., Rutherfordton—Brown-Harry Co., Gastonia, N. C., advise they have not secured contract for \$185,000 building for Citizens National Bank as lately reported.*

Tenn., Nashville—H. P. Jacobs, Independent Life Bldg., has contract at about \$50,000 to remodel 2 floors of building, 9th and Broadway Sts., into offices for Board of Extension of M. E. Church South. Marr & Holman, Archts., Stahlman Bldg., all Nashville.

W. Va., Bluefield—Bluefield Office Building Co. let contract to H. A. Lucas, Bluefield, for 6-story addition to Law and Commerce Bldg.; 45 additional offices.*

W. Va., Wayne—Peoples State Bank, Fisher F. Scaggs, Pres., let contract to Fred W.

Castle, 1132 Eighth St., Huntington, W. Va., for fireproof rough face brick building; granite stone trim and columns, 30x50 ft., basement, burglar-proof vault; to provide for future installation of heating system.*

Churches

Fla., Plant City—First Presbyterian Church, Wm. Schneider, Chmn. Bldg. Comm., has completed foundation walls for Colonial type building; cost, exclusive of furnishings, \$55,000, reinforced concrete, steel and hollow tile faced with rough faced brick, limestone trim; main auditorium and gallery to seat 350, Sunday school about 275; hot air heating system, shower baths, lavatories, kitchen, etc., in basement; Frank A. Winn, Archt.; Standard Engineering Co., Contr., both Tampa, Fla.*

Ga., Augusta—Crawford Avenue Baptist Church, Rev. E. F. Halford, Pastor, let contract to A. M. Banks, Augusta, for 2-story brick Sunday-school addition, etc.; cost \$18,000.

La., Alexandria—Calvary Baptist Church, Rev. W. P. Price, Pastor, let contract to S. W. Tudor, Pineville, La., for building; 3 stories, 130x100 ft., brick, concrete and wood floors, concrete foundation, hollow tile, metal ceilings, rolling partitions, wire glass, asbestos slate roof; heating, lighting and plumbing not let; Dr. Harvey Beauchamp, Archt., Dallas, Tex. (See Mch. Wanted—Art Glass; Seating.)

Md., Baltimore—Shearith Israel Congregation, 3457 Park Heights Ave., care P. W. Gundersheimer, 907 W. Baltimore St., let contract to Thos. Hicks & Son, 106 W. Madison St., for \$50,000 to \$100,000 synagogue and Sunday school, Park Heights and Glen Aves.; 2 stories, 94x56 ft., stone; Smith & May, Archts., Calvert Bldg., all Baltimore.

Md. Texas—St. Joseph R. C. Church, Rev. Father Smith, Pastor will erect \$40,000 community building; 2 stories, 30x80 ft., stone; J. F. Baldwin, Archt., 328 N. Charles St.; Fraunie Bros. & Haigley, Contrs., 19 W. Franklin St., both Baltimore.

Miss., Jackson—Methodist Episcopal Church South will erect \$152,000 building; H. N. Austin, Archt.; W. J. McGee, Contr., both Jackson.

Mo., La Plata—Presbyterian Community Church, Rev. A. B. Jackson, Pastor, let contract to John Scott & Sons, Memphis, Mo., for \$40,000 church and Sunday school building; 2 stories and basement, 54x90 ft., brick and tile; composition roof, metal ceilings; sub-contracts not let; Ludwig Abt., Archt., 114½ Williams St., Moberly, Mo.*

S. C., Williston—Baptist Church, Rev. W. R. Davis, Pastor, let contract for heating to W. H. Weatherford and electric work to Haffers Electric Co., both Aiken, S. C., for \$50,000 hollow tile building; pine floors, tin roof, concrete foundation; Holley Construction Co., Contr., Lamar Bldg., Augusta, Ga.*

Tenn., Nashville—Inglewood Methodist Church, Hal R. Swann, Chmn., Bldg. Comm., let contract to Wilson Thompson for \$60,000 building, Jackson Highway and New Masonic Blvd.; brick, stone trim, auditorium to seat 800; Geo. D. Waller, Archt.; both Nashville.*

Tex., Tlaga—Methodist Church let contract for Sunday school addition. Address The Pastor.

Tex., Dallas—First Baptist Church, Cullen F. Thomas, Magnolia Bldg., Chmn. Bldg. Comm., let contract to R. J. Estep & Co., Wilson Bldg., Dallas, for excavation and foundation of \$450,000 Sunday-school building, San Jacinto and Ervay Sts., as first unit

of \$1,000,000 structure; 6 stories; remodeling of old auditorium to cost \$500,000.*

City and County

Ala., Birmingham—Seating—American Seating Co., Chicago, Ill., has contract for 3000 opera seats at \$4.54 each and 1000 balcony seats at \$3.98 each for city auditorium nearing completion by Day & Sachs, Contrs., 2400 Ave. E, Birmingham; Heywood-Wakefield Co., Chicago, has contract for 2000 collapsible chairs at \$4.00 each.*

Mo., Caruthersville—Courthouse—Pemiscot County, S. E. Juden, member, County Court, let contract at \$102,925 to McCarthy Construction Co. for brick and stone courthouse; H. H. Hohenschild, Archt., Odd Fellows Bldg., both St. Louis, Mo.*

Va., Petersburg—Market Remodeling—City, Dr. W. F. Drewry, City Mgr., is remodeling city market on Halifax St.; cost \$25,000; install cold storage plant, some new equipment, artificial lighting system, etc.

Dwellings

D. C., Washington—Shapiro-Katz Co. plans to erect number of dwellings in Petworth in addition to about 45 already under construction.

D. C., Washington—C. F. Norment, Central National Bank Bldg., will erect 22 brick dwellings, 2401-43 Thirty-seventh St. N. W.; 17x29 ft.; total cost \$88,000; W. P. Glasel, Contr., 1707 First St. N. E.; plans drawn.

D. C., Washington—Bolling & Clark, 1510 Nineteenth St. N. W., have contract for \$30,000 residence, 2320 Tracey Place; 2½ stories and basement, 37x50 ft., brick; Porter & Lockie, Archts., 17th and H St. N. W., Washington.*

D. C., Washington—G. G. Loehler Co., 945 Pennsylvania Ave., N. W., has contract for 4 dwellings and garages, 16th St., Heights, Holly St. and Alaska Ave.; total cost \$120,000; 2 stories and basement, about 30x40 ft., brick and hollow tile.

Fla., DeLand—Dr. R. L. Knox will erect frame bungalow, Wisconsin Ave.; E. S. Foster, Contr., DeLand.

Fla., DeLand—Mrs. Lydia Marsh will erect 15-room addition to residence, S. Boulevard; R. Clark Parks, Contr., DeLand.

Fla., DeLand—W. C. Watts let contract to E. S. Doster, DeLand, for stucco bungalow, E. Rich Ave.

Fla., Jacksonville—Edwin C. Coffee, 36 W. 24th St., will erect \$12,000 residence, Darina Place near St. John's Ave.; 2 stories, brick veneer; Chas. J. Davis, Jr., Contr., St. James Bldg., Jacksonville.

Fla., Jacksonville—Judge Daniel A. Simmons, Union Terminal Bldg., will erect \$12,000 residence, Darina Place near St. John's Ave.; 2 stories, brick veneer; Chas. J. Davis, Jr., Contr., St. James Bldg., Jacksonville.

Fla., Jacksonville—A. D. Holley, 1515 Montague Terrace, will erect \$14,000 two-story tile residence, St. Johns St. and Seminole Rd., Avondale; Better Homes Co., Contr., Jacksonville.

Fla., Jacksonville—J. L. Strickland is erecting \$15,000 residence, Avondale Ave. and Fitz St.; brick; Phillip N. Huffman, Contr., Jacksonville.

Fla., Lake Alfred—J. P. Williams, Richmond, Inc., and Fruitlands Co., Lake Alfred, are erecting 2 dwellings overlooking Twin Lakes; cost \$10,000 to \$12,000 each.

Fla., Miami Beach—Geo. Calhoun let contract to Beach Construction Co., Miami Beach, for alterations and additions to residence, 4211 Collins Ave.; cost \$14,000.

Fla., Miami Beach—Dan Hardie let contract

to R. W. Edholm, Miami Beach, for \$100,000 Spanish type residence, S. E. part of Palm Island; 2 stories, reinforced concrete and hollow tile, fireproof, imported Spanish tile roof, Spanish tiled floors, stone paved terrace, cut stone stair and fireplace, cypress beamed ceilings in living and dining rooms, with 7½-ft. paneled oak wainscoting, 6 tile baths with showers and built-in tubs on second floor, 25,000-gal. soft water tank with pressure system, facilities for electric heating, cooking, lighting, refrigeration and power; 3-car garage with servants' quarters in rear; W. P. Brown, Archt., Miami Beach.

Fla., Sarasota—Dr. J. E. Boorom, New York City, let contract for \$25,000 residence, Hawthorne Ave.; Alex Browning, Archt.

Fla., Sarasota—John Ringling let contract to Thos. Cook, Bradentown, Fla., for brick and tile work on \$225,000 residence, Indian Beach, 2 miles north of Bradentown; Dwight Baum, Archt., Spuyten Duyvil Parkway, New York City.*

Fla., West Palm Beach—Wilcox Bros. have permit for \$50,000 two-story dwelling, Jungle Point near Ocean Blvd.; also for \$80,000 two-story dwelling, Golf View Rd. near Everglades Club.

Ga., Augusta—Harry H. Jones, 2429 Williams St., let contract to Sibert & Robinson, Augusta, for Italian type residence on The Hill; Willis Irvin, Archt., Lamar Bldg., Augusta.*

Ga., Augusta—Pierce Merry, 2088 Heckle St., let contract to Sibert & Robinson, 126 Eighth St., Augusta, for English type cottage, Hill Crest Ave.; 2 stories, hollow tile, 2 baths, porches; Wills Irvin, Archt., Lamar Bldg., Augusta.*

La., New Orleans—Mutual Building & Homestead Assn., Canal Commercial Bldg., will erect \$15,000 dwelling, Vincent and Elk Sts.; Herman M. Moors, Contr., 4604 Banks St., New Orleans.

La., New Orleans—Warren Bennett, 625 Pine St., will erect \$14,200 duplex dwelling, S. Franklin and State Sts.; J. A. O'Brien, Contr., 4124 Elk St., New Orleans.

La., New Orleans—Louis Bauer, 3415 Canal St., will erect \$19,500 building, Robert and Peters Sts.; Bernard Segal, Contr., 1735 Carondelet St., New Orleans.

La., New Orleans—Dixie Homestead Assn., 203 Machea Bldg., and V. Vitiane, 5901 Iberville St., will erect raised frame bungalow, Iberville and Louisville Sts.; G. G. Bordenaze, Contr., New Orleans.

La., New Orleans—E. J. Stewart, American Bank Bldg., has contracts for following dwellings: Double 9-room, Tupelo and N. Rampart Sts., \$5700; double 2-story, Miro and Bienville Sts., \$10,700; single 5-room, Metairie Ridge, \$5500; double 4-room, N. Rocheblave and New Orleans Sts., \$4500; double 4-room, Johnson St. near 2nd St., \$4500; store and double dwelling, Oleander and Danti Sts., \$7500.

La., New Orleans—Chas. Falanga, 3319 Chestnut St., and Security Building & Loan Assn., Maison Blanche Bldg., will erect \$14,624 building, Chestnut St. and Lane Ave.; New Orleans Construction Co., Contr., New Orleans.

La., New Orleans—Fidelity Homestead Association, Canal-Commercial Bldg., and M. G. Adams, 3216 Carrollton St., will erect single two-story dwelling, Spruce St. near Short St.; W. T. Bushnell, Contr., 472 St. Peter St., New Orleans.

La., New Orleans—August Frank, 1733 N. Dorgenois St., will erect 10 double cottages,

London, Dorgenois, Havana and Law Sts.; plans and construction by owner; work to start in about 30 days.

La., New Orleans—Orleans Realty & Investment Co., Inc., J. D. Burnett, Pres., 3914 St. Charles St., is erecting 3 four-family dwellings on Amella St. near Howard St.

La., New Orleans—L. N. Reiser, 628 N. Rampart St., will erect double cottage, Fortin and Crete Sts.; owner builds; work to start in about 30 days.

La., New Orleans—L. T. Vivian will erect 5 double cottages, Republic and Virtue Sts.; total cost \$14,000; John M. Werling, Contr., 1934 Dauphine St., New Orleans.

La., Shreveport—C. R. Minor, 539 Stoner Ave., let contract at \$18,000 to B. W. Minor for tile and stucco residence, 2027 Fairfield Ave.; 2 stories, 39x49 ft., hardwood floors, stone foundation, slate roof; hot water heating and plumbing to M. Nelson Barnes; electric work, Thomas Electric Co.; Nathan Adler, Archt., Bancroft Rd., all Shreveport.*

Maryland—Herald Harbor, care of Edw. S. Hine, Director of Sales, 1313 New York Ave., Washington, D. C., has ordered 60 bungalows and cottages erected on the Severn River and 140 others are in prospect. (See Building Contracts Awarded—Miscellaneous.)

Md., Baltimore—John E. Deming, 901 Maryland Trust Bldg., will erect \$35,000 residence and garage, Bedford Place near Charles St.; 2½ stories, 26x36 ft., stone; Jos. Evans Sperry, Archt., Calvert Bldg.; L. L. Chambers, Contr., 36th St. and Roland Ave., both Baltimore.

Md., Baltimore—Geo. H. Geyer, 237 N. Monroe St., will erect 7 brick dwellings, S. side Thorndale Ave. E. of Pimlico Rd.; 2 stories, 24x28 ft., steam heat; Fredk. S. Beall, Archt., 306 St. Paul St., Baltimore; owner builds.*

Md., Baltimore—Charles White, 1720 Maryland Ave., will erect \$25,000 residence; 2½ stories, 37x40 ft., frame; Wm. W. Emmery, Archt., Union Trust Bldg.; G. Walter Tovell, Contr., Eutaw and Monument Sts., both Baltimore.

Md., Baltimore—Bealmear & Boyd, 16 E. Lexington St., purchased 4½-acre tract, N. E. cor. Remington Ave. and 29th St., and will erect about 75 two-story brick, porch-front dwellings; 8 rooms and bath; total cost about \$500,000; owners build.

Md., Baltimore—Berwick Land Co. let contract to Chas. Elkins for 5 dwellings, S. side Berwick Ave., W. of Harford Ave.; 1½ stories, frame, 24x34 ft., hot air heat; total cost \$12,000.*

Md., Baltimore—R. J. Richards, Gittings and Bellona Ave., let contract to Wm. H. Sands, 6236 Bellona Ave., for \$15,000 two-story stone and hollow tile residence, W. side Bellona Ave. near Gittings Ave.; 33x41-ft., slate roof, hot water heat; plans by contr.*

Md., Baltimore—Golder Shumate, Cambridge Apts., let contract to John Hiltz & Sons Co., 343 St. Paul Place, for \$24,000 stone residence and garage, S. E. cor. Wendover and Underwood Rds.; 2½ stories, 43x40 ft., slate roof, hot water heat; Edw. L. Palmer, Jr., Archt., 513 N. Charles St., both Baltimore.*

Md., Baltimore—F. E. Saumenig, 5001 Liberty Heights Ave., will erect 4 frame dwellings, 3811-17 Packard Ave.; 1½ stories, 26x31 ft., shingle roofs, steam heat; total cost \$10,000; E. J. Beregoy, Archt., Baltimore.*

Mo., St. Louis—Murich & Co., 8323 N. Broadway, will erect 4 brick dwellings, 727-29-33-38 Ponce St.; 2 stories, 24x32 ft., composition shingle roofs, hot air heat; total cost \$10,000; A. Meyer, Central Nat'l Bank

Bldg., Archt.; J. H. Zollars, Contr., 706 N. Pontiac Bldg., both St. Louis.

Mo., St. Louis—C. Howard, Jr., 5501 Chamberlain St., will erect \$18,000 brick residence, 5522 Chamberlain St.; 2 stories, 35x42 ft., tile and slate roof, hot water heat; W. P. Joy, Archt., Webster Groves, Mo.; Woermann Construction Co., Contr., 1441 Syndicate Trust Bldg., St. Louis.

Mo., Springfield—J. L. Hine is erecting 20 brick dwellings, National Blvd., Beacon Hill Addition.

N. C., Charlotte—Mrs. Mary Myers Dwelle will erect 9 tenant houses, Cherry and Cecil Sts.; total cost \$10,000; Lee Kinney, Contr., Kinney Bldg., Charlotte.

Okl., Oklahoma City—Daily Oklahoman will erect model home in Gatewood addition; G. A. Nichols, Inc., Contr., 115 N. Harvey St., Oklahoma City; ground broken.

S. C., Columbia—Mrs. P. C. Lorick let contract to J. T. Dabbs to remodel and erect additions to residence, Hampton and Barnwell Sts.; Lafaye & Lafaye, Archts., both Columbia.*

S. C., Columbia—University of South Carolina let contract at about \$14,000 to Robt. D. McClure for alterations and additions to residences of Profs. Davis & McCutcheon; Lafaye & Lafaye, Archts., all Columbia.*

Tenn., Memphis—R. B. Clinton will erect \$12,000 duplex residence, 243 Avalon St.; 14 rooms; heating, \$1200; Clinton Building Co., Contr., Memphis.

Tex., Dallas—Jack W. Tucker, 4814 Swiss St., is erecting \$10,000 duplex residence, 4814 Swiss Ave.; 2 stories, 10 rooms.

Tex., Houston—Taylor Investment & Construction Co., Mason Bldg., is erecting \$30,000 dwelling, 1906 W. Alabama St.; 2 stories, 9 rooms, brick veneer.

Tex., Medina Lake—Jack W. Neal let contract to Vincent Falbo, 507 N. San Saba St., San Antonio, Tex., for \$20,000 country residence; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio.*

Tex., Waco—H. T. Cruger will erect Colonial residence, 31st and Maple Sts.; brick veneer, 2 stories, 8 rooms; Herman F. Cason, 204 Cameron Bldg., Archt.; J. F. Cason, 1202 N. 18th St., Contr., both Waco.

Tex., Waco—T. E. Jarman, 1207 N. Fifth St., will erect \$18,000 Colonial residence, Castle Heights Ave.; 2 stories, brick veneer; Herman F. Cason, 204 Cameron Bldg., Archt.; Rabe Wilson, Contr., 2326 Morrow Ave., both Waco.

Government and State

W. Va., Logan—Postoffice—G. W. Ralke and J. G. McGuire let contract at about \$30,000 to J. W. Fisher, Logan, for building, 420 Main St.; 2 stories, 36x100 ft., brick; first floor to be leased to Government for postoffice, offices or apartments above.*

Hospitals, Sanitariums, Etc.

Md., Baltimore—Sisters of Third Order of St. Francis will let contract to Frainie Bros. & Hargley, 19 W. Franklin St., for \$150,000 nurses' home at St. Joseph's Hospital, Caroline and Oliver Sts.; 4 stories and basement, 135x75 ft., brick; Frank J. Baldwin, Archt., 328 N. Charles St., both Baltimore.*

Okl., Fort Sill (Ind. Branch Lawton)—Constructing Quartermaster, Fort Sill, let contract for \$30,000 hospital ward to National Construction Co., 810 H Ave., Lawton; 2 stories, 48x34 ft., concrete, stone and tile.

S. C., Orangeburg—Dr. C. A. Mobley will let contract to H. H. Jenkins, Orangeburg, for \$35,000 administration building at Orangeburg Hospital; 3 stories, 34x56 ft., rubber

tile, oak and concrete floors, concrete foundation, Barrett specification roof, interior tile, metal doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass; contracts not let for steam heating system in new building and alterations to present system in existing buildings or for 1 electric elevator, 4.6x7 ft., speed 30 to 100 ft., capacity 1500 lb.; electric work and plumbing in general contract; Nat Gaillard Walker, Archt., Rock Hill, S. C.*

S. C., Spartanburg—Fiske-Carter Construction Co., Spartanburg, has contract for masonry, carpentry and plastering work on \$100,000 on Mary Black Clinic, E. Main St.; Lockwood, Greene & Co., Archts.-Constr. Supervisors, 24 Federal St., Boston, Mass., Spartanburg, etc.*

Tex., McAllen—City, G. C. Seawall, Sec., let contract at \$21,450 to Wm Horn, Pharr, Tex., for brick veneer municipal hospital; 3 stories, 30x80 ft., concrete, tile and edge grain pine floors, concrete foundation, asbestos slate roof; forced hot air heating to Eagle Sheet Metal Works at \$1125; electric wiring, Martin Wright Electric Co., \$937, both San Antonio, Tex.; plumbing, C. H. Richmond, McAllen, \$1905; Otis Elevator Co., New York City, 1 hoist and 1 dumbwaiter; Paul G. Silber & Co., Archts., 331 Bedell Bldg., San Antonio.*

Tex., Seymour—Baylor County Commrs. Court, Ernest Tibbetts, Judge, let contract at \$31,800 to C. H. Mothes, Seymour, instead of N. L. Graham, Seymour, as lately reported; 2 stories and basement, 36.8x79 ft., fireproof, concrete and tile floors, concrete foundation, Spanish tile and tar and gravel roof, 1 metal door, ventilators, linen chutes, 1 hand-power elevator; A. B. Withers, Archt., Mineral Wells, Tex.; heating, lighting and plumbing not let; excavation complete.*

Hotels and Apartments

Fla., Canal Point—Charles Tedder is erecting 3-story, 20-room hotel.

Fla., Miami—W. E. Boyleston, Chicago, Ill., awarded contract to O. M. Bristol, Miami, for \$14,800, 2-story, concrete block, 4-family apartment building, 260 N. E. 13th St.; J. C. Gault, Archt., Miami.

Fla., Miami Beach—Dade Refrigerating & Engineering Co., Miami, has contract for installing refrigerating equipment in \$1,100,000 Fleetwood Hotel, for which Geo. W. Langford Co., Louisville, Ky., has contract; equipment manufactured by Baker Ice Machine Co., Inc., Valdosta, Ga., will be used throughout.

Fla., Miami Beach—Ida M. Swank awarded contract to H. Clarence Booles, Miami, for \$17,000, 2-story, concrete block, stucco, 4-family apartment building, lot 4 of block 21, Ocean Beach addition number 2; J. C. Gault, Archt., Miami.

Fla., Miami Beach—A. L. Sammons, 608 5th St. is erecting \$50,000 to \$60,000, 40x110 ft., 3-story, block and reinforced concrete apartment hotel, Pennsylvania Ave., between 9th and 10th Sts.; pine and concrete floors, cement foundation, built-up asphalt roof, interior tile, metal doors, vaults, ventilators, ornamental terra cotta, wire glass; W. F. Brown, Archt.; A. L. Sammons Co., Inc., Contr., both 608 5th St., Miami Beach.

Ga., Albany—Thronaleska Hotel Co. awarded contract to A. E. Ittner & Co., Albany, at about \$260,000, for 6-story, brick and tile, fireproof hotel; concrete and tile floors, composition roof, concrete foundation, hollow tile, metal doors, ventilators, steel sash and trim, mail chutes, ornamental terra cotta; N. W. Overstreet, Archt., Jackson, Miss.*

Ga., Atlanta—Meyer M. Goldstein and Dave Shalloway, 273 S. Pryor St., awarded con-

tract to Joe M. Walker, Rockbridge Rd., care of Grant-Jester Co., Atlanta, Ga., for \$50,000, 2-story brick veneer and wood 16-apartment building, 622 Ponce de Leon Ave.; hardwood flooring throughout, tar and gravel roof, brick foundation.*

La., Shreveport—M. T. Schumate, care of Excelsior Laundry, 612 Crockett St., will erect apartment building; L. C. Shaw Shreveport, low bidder at \$17,994, 2-story, frame, 42x58 ft. composition shingle roof, pine finish, e. g. pine floors, plaster, plumbing electric wiring; M. D. Weeks, Jr., Archt., Ardis Bldg., Shreveport.

Maryland—Herald Harbor, care Edw. S. Hine, Director of Sales, 1313 New York Ave., Washington, D. C., contemplates erecting hotel on Severn River. (See Building Contracts Awarded—Miscellaneous.)

Mo., Boonville—Guy C. Millon, Propr. Hotel Frederick, awarded contract to W. W. Walther, Boonville, for \$35,000 addition; 33 rooms 18 to have private baths; banquet hall; Gieger Plumbing & Heating Co., Boonville, plumbing; cost of furnishings \$15,000.

Mo., Kansas City—Jewell Realty Co., 623 Chambers Bldg., is erecting \$130,000, 4-story, 72x997 ft., concrete, brick and wood apartment hotel, N. W. cor. 14th and Central Sts.; concrete and wood floors, composition roof, concrete foundation, hollow tile, ventilators, wire glass; Wilkinson & Crans, Architects, 608 Interstate Bldg., Kansas City. Owner builds with day labor.*

Mo., Kansas City—King Building Co., Contrs. and Builders, 1127 East 31st St., is erecting eight 6-apartment buildings; stone foundations, 3 stories, hardwood flooring; P. L. Davis, Archt., Kansas City Mo.*

Mo., St. Louis—W. Hemphling will erect \$10,000, 2-story, brick, 35x41 ft. tenement building, 1416 Adelaide St.; tile roof, furnace heat; Z. F. Rupp Building & Construction Co., Contrs.; E. Warne & Conde, A. Stauder, Archts.; all 6032 S. Kingshighway.

Tenn., Chattanooga—R. M. George, 631 W. 6th St., is erecting apartment house, West 6th St. and Boynton Terrace; residence being remodeled into 3 bungalow apartments; Thos. H. Butler, Contr., 57 S. Willow St., Chattanooga.

Tex., Best—C. C. McBurnett awarded contract to West Texas Lumber Co., Best, for 3-story, 50-room, \$25,000 frame hotel.

Tex., Dallas—Mrs. Marie Jones awarded contract to W. Shofner, Dallas, for \$55,000, brick veneer, 16-apartment building, 4102-04 Bowser St.*

Tex., Dallas—W. W. Sanders awarded contract to H. R. Russell, 1400 S. Ackard St., Dallas, for \$16,000 apartment building, 542 Ross Ave.*

Tex., Houston—J. F. Kubela is erecting \$11,000, 2-story, 8-room apartment building at 1714 W. Webster St.

W. Va., Williamson—Williamson Community Hotel Corp. awarded contract to Payne Construction Co., Ashland, Ky., at \$257,000, for erecting Mountaineer Hotel; 5 stories, reinforced concrete; Meador & Handloser, Archts., Huntington, W. Va.*

Miscellaneous

Ga., Hapeville—Home—Georgia Baptist Orphanage awarded contract to Pittman Construction Co., Rhodes Bldg., Atlanta, Ga., for \$25,000, 2-story and basement, brick and frame, 50x100 ft. dormitory; pine and concrete floors, stone and concrete foundation, composition roof, hollow tile, metal ceiling, plaster board; A. Ten Eycke Brown, Archt., Forsythe Bldg., Atlanta, Ga. Recently reported awarded to C. R. Justi, Atlanta.*

Maryland—Herald Harbor, care Edw. S.

Hine, Director of Sales, 1313 New York Ave., Washington, D. C., contemplates extensive development of property on Severn River; plans include bath houses; 60 bungalows and cottages have been ordered and 140 others in prospect, arrangements made for construction of tea room, restaurant, hardware store, gas station, house furnishing store, general merchandise store; negotiation under way for hotel and motion picture theater; much of work undertaken by owner's carpenters and under owner's superintendent, Mr. Barganni; some improvements under direction of Mr. Bishop, Chief Engr.; number of homes under construction by Lewis Homes Co. and Meredith Lumber Co. of Annapolis, who represent other contractors; baseball park and tennis courts under construction.

Md., Arnold Station—Severn Country Club, care Geo. W. Roos, 308 S. Hanover St., Baltimore, awarded contract to Samuel Dove, P. O. Box 94, Annapolis, Md., for \$30,000, 2-story, 52x94 ft., frame and shingle country club at The Pines-on-Severn; Turner Architectural Service Corp., Archts., 3 E. Lexington St., Baltimore.*

Md., Baltimore—Clubhouse—Board of Governors of Maryland Country Club, Fred C. Schanberger, Pres., 3906 Liberty Heights Ave., awarded contract to Wm. F. Chew & Co., 212 Clay St., Baltimore, for \$100,000, 2-story and basement, 50x100 ft. clubhouse, Park Heights Ave. and Carroll Road; oak and concrete floors, concrete foundation, slate roof, hollow tile, wire glass, ventilators, stucco; Geo. R. Callis, Archt., American Bldg., Baltimore, Md.*

Mo., St. Louis—Stable—Highland Dairy Farm Co. will erect \$50,000, 2-story, brick, 123x88 ft., fireproof stable, 4335 Chouteau St.; Neal & Davis, Archt., 405 Olive St.; Kraemer & Voel, Construction Co., Contrs., 721 Century Bldg.; both St. Louis.

N. C., Goldsboro—Fair Buildings—Wayne County Fair Assn. is making extensive repairs to grounds and buildings.

Tex., Fort Stockton—Clubhouse—Fort Stockton Alfalfa Assn. is erecting \$10,000, 120x200 ft., concrete building.

Tex., Houston—Home—Board of Episcopal Workers, Mrs. J. J. Clemans, Pres., 3008 Travis St., awarded contract to Irvin J. Shapley, Houston, for \$20,000 Sheltering Arms Home for Aged Women; Edress & Cato, Archts., Houston.*

Tex., Medina Lake—Lodge—Jack W. Neal awarded contract to Vincent Falgo, San Antonio, for stone, brick and concrete, \$20,000, 2-story 35x35 ft. lodge; Atlee B. & Robt. M. Ayres, Archts., San Antonio, Texas.

Schools

Ala., Boaz—School Board is erecting \$50,000 elementary school building.

Ala., Tuskegee—Tuskegee Normal & Industrial Institute is erecting \$85,000, 4-story, brick with stone trimmings boys' dormitory; metal shingle roof, wood floors, concrete foundation, 85x150 ft.; construction by students.*

Ark., Camden—Board of Directors, Special School Dist. No. 35, awarded contract to Ward H. Fisher, Cotton Exchange Bldg., Oklahoma City, Okla., for erecting annex to high school building and new negro school; annex 120x80 ft., 8 classrooms, auditorium with stage and gallery; Witt, Seibert & Halsey, Archt., Texarkana, Ark.*

Ark., Morrillton—Harding College awarded contract to J. H. Imboden & Son, Morrillton, for \$22,000, 3-story and basement dormitory.

Fla., West Tampa—(Sta. Tampa)—Hillsborough County Board of Public Instruction, J. E. Knight, Supt., awarded contract to

Logan Brothers, Tampa, at \$31,989 for addition to A. L. Cuesta School; also to W. E. Alman & Son, Tampa, for building in North Hyde Park section and repairs to Macfarland school at \$5198 and \$3150; J. W. Biggar, Archt., Tampa.*

Ga., Barnesdale—Gordon Institute, L. D. Watson, Pres., awarded contract to J. S. McCauley Co., Atlanta, at \$37,121, for erecting 2-story brick dormitory; O'Pry Heating & Plumbing Co., Macon, heating and plumbing at \$7841; Eugene C. Wackendorf, Archt., Forsythe Bldg., Atlanta, Ga.*

Ga., Bronwood—Terrell County Board of Education awarded contract to E. W. Rawlings, Bronwood, to remodel and erect additions to school buildings; \$30,000; hollow tile, metal shingles, stucco and tin roof; 6 classrooms, auditorium to seat 500, principal's office, toilets, etc.; T. F. Lockwood, Archt., Murrah Bldg., Columbus, Ga.

Ky., Erlanger—Board of Education, L. Dixon, Pres., has plans by and awarded contract to P. J. Carter for \$20,000, 2-story, 45 x 60 ft., brick school addition.

Ky., Oneida—Oneida Baptist Institute, Mrs. Sylvia W. Russell, Pres., awarded contract to M. M. Redmon, Pine Bluff, Ark., for \$50,000, 2-story and basement, 90x100 ft., brick girls' dormitory; R. Carnahan, Archt., Pine Bluff, Ark.*

Md., Fullerton—St. Joseph's Roman Catholic Church, Rev. E. Otterbain, awarded contract to E. Eyring & Son, 3501 Falt Ave., Baltimore, for \$40,000, 2-story and basement, 108x70 ft., stone and steel frame school and community building; J. E. Moxley, Jr., Archt., 20 E. Lexington St., Baltimore.

Md., Gaithersburg—St. Martin's Catholic Church, Rev. J. S. Cuddy, awarded contract to H. A. Sylvester, 1242 Everts St. N. E., Washington, D. C., for \$40,000, 2-story and basement, 50x90 ft., brick and stone parochial school; concrete, wood and linoleum floors, concrete foundation, slag roof, hollow tile, steel sash and trim, wire glass; Geo. R. Callis, Jr., Archt., Hearst Tower Bldg., Baltimore, Md.*

Miss., Indianola—Indianola Independent School District awarded contract to L. M. Ellis & Co., Clarksdale, Miss., for \$20,000 annex to high school; Frank Gates, Archt., Clarksdale, Miss.*

Miss., Meridian—School Board awarded contract to Wetmore & Priester, Meridian, for remodeling West End and Southside schools; McArthur & McLeomore have contract for erecting Marion Park School.

Miss., Meridian—Board of School Trustees, H. M. Ivy, Sec., awarded contract to S. W. Leard, Box 524, Meridian, at \$162,900, for erecting Junior High, remodeling Senior High, Manuel Arts building, etc.; 2-story, 281x184 ft., tile, cement and wood floors, reinforced concrete foundation, Barrett roof, metal ceilings, steel sash and trim; P. J. Krouse, Archt., Meridian.*

Mo., St. Louis—Sisters of St. Joseph of Carondelet are erecting group of buildings on 15-acre tract at Pennsylvania Ave. and Wydown Blvd., to be known as Fontbonne College; cost \$1,500,000; consists of 5 buildings: Administration, science, music and art, gymnasium and power house; first 3 each 200x60 ft.; administration 4 stories, contain administrative offices, reception rooms, main library, dormitories and individual rooms, dining hall to seat 400, cafeteria to serve 250, connected with the building is chapel 100x60 ft., with seating capacity of 400; covered 1-story arcades connect Administration Building with Science Hall and Music and Arts Building; each 3 stories, former contains 30 classrooms, 2 study halls, 4 science laboratories and 2 lecture

rooms; latter contains reception and exhibit rooms, libraries, studios, classrooms and sound-proof music rooms, entrance leads through first story to auditorium 100x60 ft., with seating capacity of 400; Gymnasium Building 100x73 ft., 1-story, contains gymnasium 60x42 ft., swimming pool 60x32 ft., and spectators gallery; power house will contain laundry and quarters for hired help; all fireproof, reinforced concrete and structural steel, inclosed with granite-faced masonry walls, Tudor Gothic type, Missouri red granite trimmed with Bedford stone; to be completed for fall term of 1925; Albert B. Groves, Archt., 314 N. 4th St.; Humes & Deal Co., Contrs., Century Bldg.; both St. Louis, Mo.

Mo., Cape Girardeau—Trinity Lutheran Congregation awarded contract to J. C. Reisenbichler, Cape Girardeau, at \$39,985.50, for parochial school building; 4 classrooms 32x25 ft. with individual lockers, rest room 16x16 ft., principal's office and library 16x16 ft., confirmation room, 16x16 ft., toilet rooms, combined auditorium-gymnasium 41x80 ft., basement 78x123 ft. containing 2 play rooms, kitchen, dining room, bowling alley, fuel and boiler rooms; fireproof, brick walls and partitions.*

Mo., Caruthersville—Board of Education, C. F. Bleker, Sec., awarded contract to McCarthy Construction Co., Chemical Bldg., St. Louis, for \$175,000, 2-story and basement, 145x75 ft., brick and stone trim high school building; H. H. Hohenschild, Archt., Odd Fellows Bldg., St. Louis, Mo.*

Mo., Festus—Board of Education, M. W. Brickley, Pres., awarded contract to A. G. Nolan, Times Bldg., St. Louis, for \$60,000, 2-story and basement, 129x58 ft. brick and stone trim high school building; Bonsack & Pearce, Archts., 35 Republic Bldg., St. Louis, Mo.*

Mo., Kansas City—Board of Education, J. B. Jackson, Jr., Sec., awarded contract to Arthur G. Harper, 6235 E. 13th St., Kansas City, for \$55,000, 2-story and basement, 11x42 ft., brick and native stone J. J. Pershing school addition, Olive and 59th Sts.; C. A. Smith, Archt., Finance Bldg.; J. A. Brady, Engr., Library Bldg.; both Kansas City.*

Mo., Kansas City—Miss Barstow's School, care Mary L. Barstow, principal, 15 Westport Ave., awarded contract to Miller Stauch Construction Co., 225 Railway Exchange Bldg., Kansas City, for \$75,000, 3-story and basement, 56x67 ft., frame and stucco dormitory, 50th and Cherry Sts.; C. A. Smith, Archt., Finance Bldg., Kansas City.

Mo., Raytown—Board of Education District No. 2, care H. C. Behoney, Clk., awarded contract to O. S. Widener, Raytown, for 3 school buildings; each about \$9000, 1-story and basement, 32x62 ft., brick; E. O. Brostrom, Archt., 623 Reliance Bldg., Kansas City, Mo.

Mo., Tarkio—Tarkio College, Building Committee, care Dr. J. A. Thompson, Pres., awarded contract to Jos. McCoy, Tarkio, for \$40,000, 1-story, brick gymnasium; H. I. Goddard, Archt., 612 Interstate Bldg., Kansas City, Mo.*

N. C., Raleigh—Raleigh Township School Comm., H. F. Srygley, Supt., awarded contract to American Heating & Ventilating Co., Raleigh, for heating Hugh Morson High School Building for which W. B. Barrow & Son, Merchants Bank Bldg., Raleigh, was recently awarded general contract; revised bids for plumbing and wiring will be opened at later date; C. Gadsden Sayre, Archt., Anderson, S. C., and Raleigh and Greensboro, N. C.*

N. C., Star—Star Special School Tax District, P. L. Harper, Sec., awarded contract to

J. H. Hudson, Troy, N. C., at \$58,011, for 2-story, brick, 14-classroom and auditorium school building; wood floors; J. M. Kennedy, Archt., Raleigh, N. C.*

S. C., Clinton—State Board of Public Welfare, Jas. C. Dozier, Exec. Sec., awarded contract to C. W. Guest, Anderson, S. C., at \$55,890, for 3 brick dormitories at State Training School; George Lafaye, Archt., Columbia.*

S. C., Columbia—University of South Carolina awarded contract to L. D. Thomas, Columbia, for repairs and alterations to de Saussure College.*

S. C., Gaffney—Finance Committee of Board of Trustees of Limestone College awarded contract to Globe Automatic Sprinkler Co., 2035 Washington Ave., Philadelphia, Pa., at \$13,320, for installing 1476 sprinklers.

S. C., Greer—Greenville County Board of Education, Greenville, awarded contract to Gallivan Construction Co., Greenville, for \$50,000, tile and stucco, 14-classroom and auditorium Victor Mill School.*

Tex., Jacksonville—Jacksonville College is erecting girls' dormitory 45x150 ft., 2 stories and basement, plumbing and steam heating.

Tex., Hot Wells—Board of Trustees Hot Wells Independent School District awarded contract to Shane & Dickey, San Antonio, at \$12,854, for reinforced concrete and brick, fireproof school building; Phelps & De Wees, Archts., Gunter Bldg., San Antonio.*

Tex., Mission—Mission Independent School District Board of Trustees awarded contract to J. E. Walsh, Mission, at \$47,000 for 2-story, brick and concrete school building; Adams & Adams, Archt., Gibbs Bldg., San Antonio, Texas.*

Tex., Pharr—Pharr-San Juan Independent School District, Van Williams, Sec., awarded contract to A. J. Ross, Edinburg, Tex., at \$56,000, for three 1-story, 5-room brick ward schools at Pharr, San Juan and Almo; e. g. pine floors, Barrett roofs, concrete foundations; also awarded contract to A. M. Lougoria, Pharr, at \$11,517.89, for two 3-room ward schools and Home Economics Cottage at San Juan and Pharr; 1-story shingle roofs, concrete foundations, frame; Paul G. Silber & Co., Archts., San Antonio, Texas.*

Tex., Roscoe—Roscoe Independent School District awarded contract to Stevens & Bolton, Dublin, Tex., at \$19,594 for 2-story, brick, 90x110 ft. school building; concrete, pine and hardwood floors, concrete foundation, tar and gravel roof, hollow tile, metal ceilings, ventilators, steel sash and trim, wire glass; major items to be purchased include desks, auditorium chairs and steel lockers; R. S. Glenn, Archt., Cisco.*

Tex., Texarkana—School Board awarded contract to Young Rice, Texarkana, for \$19,000 domestic science cottage at high school.

Va., Suffolk—School Board, Jno. E. Martin, Supt., awarded contract to Nussman & Cox, National Bank of Suffolk Bldg., Suffolk, at \$40,699.95, for brick, 10 classroom colored school building.

W. Va., Glen White—Board of Education, Town District, Dr. L. A. Martin, Pres., Beckley, awarded contract to Houchins Bros., Stanley St., Beckley, for \$50,000, 2-story and basement, 78x52 ft., brick and tile junior High and Grade school building; G. R. Hubbs, State Board of Education, Capitol Bldg.

Stores

Fla., Daytona—Arthur N. Otis, propr. Daytona Book & Stationery Co., awarded contract to H. V. Whipple, Daytona, for extensive improvements to 180 S. Beach St.; will be

extended back 40 ft. and second floor will be built over 2 stores.

Fla., Miami—Burdine Sons' Co., Geo. E. Whitten, Mgr., awarded contract to George Jahn, Miami, for 4 additional stories on present store building, N. E. cor. Miami Ave. and S. E. First St., remodeling part of building fronting E. Flagler St. by installing new front and remodeling 3rd, 4th and 5th floors, taking out all partitions and connecting with present building; \$250,000; reinforced concrete frame and girder type.

Fla., Titusville—C. S. Ewing, Miami, has contract to erect Walker Building on Washington Ave.; 3-story, hollow tile and stucco, stores and apartments.

Fla., Hollywood—Mrs. B. M. Ayeworth, West Palm Beach, is erecting business building on Harrison St.

Ga., Chatsworth—R. J. White awarded contract to Wm. Pendley to erect 2-story, brick store and apartment building, Second Ave. and Market St.

Md., Baltimore—H. W. Schwaab, 4110 Charles St. Ave., awarded contract to G. Kreiner, Baltimore, for three 1-story brick buildings, n. e. cor. Greenmount Ave. and 33rd St.; one 25x79 ft.; two 19x39 ft.; sloe roofs, stove heat; \$14,500; W. Carston Archt., Baltimore.

Md., Baltimore—R. Ember & Co., Sam M. Carmel, Pres., awarded contract to Louis Ulman, 414 Asquith St., Baltimore, for \$20,000, 3-story, 17x41 ft., brick and steel store building addition, 1016-18 E. Baltimore St.; private plans.

Md., Frederick—C. C. Carby will erect 3-story addition to present building; brick; A. H. Heilman, Archt.; R. W. Poole, Contr., both Frederick.

Miss., Hattiesburg—Davidson Co. has improvements under way to cost \$25,000, and include new Otis elevator, front window display system, etc.

Mo., Kansas City—L. J. Baer of L. J. Baer & Co., 200 Grand Ave. Temple, is erecting 1-story, 6-storeroom building, 31st and Walnut Sts.; 80-ft. frontage.

Mo., St. Louis—S. Schuler, 4100 Shenandoah St., awarded contract to G. Moeller, 3520 Itaska St., for \$17,000, brick, 2-story store and tenement, 2309-11 Thurman St.

Mo., St. Louis—Turso Investment Co., 7069 Pershing St., will erect \$20,000, concrete foundation for store and loft building, 119x109 ft., at 2121 to 33 Pine St.; G. School, Archt. and Builder, 7069 Pershing St., St. Louis.

N. C., Scotland Neck—Nat Pierson, Contr., Enfield, is erecting building on Main St. to be occupied by Five and Ten Cent Store.

S. C., Belton—E. B. Rice is erecting 2

wood and brick storerooms on North Main St.; plate glass fronts; Townsend Lumber Co., Anderson, S. C., is furnishing material and job foreman.

S. C., Gaffney—Little, Peeler & Clarkson awarded contract to L. Baker, Gaffney, for \$20,000, 4-story, brick building on Frederick St.; 35x60 ft., metal roof, brick and concrete, wood floors, metal ceilings, metal doors; T. J. Cogle, plumbing and heating; E. S. Sheppard, electric work, both Gaffney; 1 passenger elevator not awarded.*

S. C., Sumter—Neill O'Donnell awarded contract to Derby & Burns, Raleigh, for \$23,000, 2-story, stone front, 33x113 ft. store building tin roof, brick foundation, metal ceilings, interior tile, wood floors, 1-pipe gravity steam heat, knob and tube system lighting; Wilson, Berryman & Kennedy, Archts., Columbia.*

Tenn., Memphis—Balton & Sons, 85 S. 2nd St., are erecting \$16,000, 2-story building, Third St. and Gayoso Ave.; finished in white tile brick and trimmed in stone; plate glass windows.

Tex., Dallas—R. B. Tyler will remodel brick stores at 2123 Main St.; \$15,000; B. Morris & Son, Contrs., 2439 Swiss St., Dallas.

Tex., Waco—Meadows & Co., Inc., 220 S. Second St., awarded contract to Bush & Phillips, care Wm. Cameron & Co., Waco, at \$20,800, for 2-story, mill construction, concrete column and beam, 87x140 ft. wholesale house; Viskalt Membrane roof, concrete foundation, metal ceilings, metal doors, vaults, ventilators, steel sash and trim, wire glass, concrete and wood floors; Claud Doyle, electric wiring; Ed Vance Co., plumbing; Harry L. Spicer, Archt.; all Waco.*

Tex., Waxahachie—S. P. Skinner, 1600 N. Kansas St., El Paso, awarded contract to R. L. Lowry, Waxahachie, for reconstruction of building, Main and College Sts.; 2 stories, first floor divided into two 28x81 ft. stores; second floor 8 doctors' offices.*

Va., Pulaski—Glenn & White Building, Washington Ave. and Second St., is being enlarged by 2-story addition.

Theatres

Fla., Lakeland—H. B. Carter awarded contract to Marshall-Jackson Co., Inc., Lakeland, for 2-story, 49x120 ft., fireproof theater building, Kentucky Ave.; cement and marble floors, concrete foundation, built-up roof, hollow tile, interior tile, metal doors, ventilators, gas radiator heat; Roy A. Benjamin, Archt., Jacksonville, Fla.*

Maryland—Herald Harbor, care Edw. S. Hine, Director of Sales, 1313 New York Ave., Washington, D. C., contemplates erecting theater. (See Contracts Awarded—Miscellaneous.)

Mo., St. Louis—Elare Realty Co., 321 Int. Life Bldg., will alter 3-story theater, store and hotel building at 600-10 Walnut St.; \$15,000; G. Wyatt, Builder, 321 Int. Life Bldg.; Craven Engineering Co., Archts., Chemical Bldg.; both St. Louis.

Mo., St. Louis—Stromsell Real Estate & Investment Co., Ben Stromberg, Pres., has purchased Juniate Theater, 3147 S. Grand St., and is making extensive improvements.

Tex., Lubbock—J. D. Lindsey awarded contract to McCollum Bros., Lubbock, for excavation for basement of \$100,000 theater building; general contract will be let in about 10 days.*

Va., Richmond—Bluebird Theater Co., 620 E. Broad St. awarded contract to J. W. Atkinson & Co., Lyric Bldg., Richmond, at \$38,663, for 2-story, brick and limestone, 45x130 ft. theater building, 109 Brookland Park Blvd.; cost of furnishings including organ \$35,000; concrete, tile and composition floors, Barrett Bond roof, cement foundation; major items to be purchased include seats, organ, machines, ventilators, fans, flooring; American Heating & Ventilating Co., Inc., Times Dispatch Bldg., Richmond, heating; Fred Bishop, Archt., Virginia Railway & Power Bldg., Petersburg.*

Va., Suffolk—Jones Estate awarded contract March 24 to W. S. Tebo, Suffolk, at \$70,000, for 2-story, fireproof, \$90,000, 100x200 ft. store and theater, Main St.; concrete roofing, concrete floors, brick foundation, hollow tile, interior tile, metal doors, ventilators, ornamental terra cotta, steel sash and trim, wire glass; Garrett Co., Newport News, heating; Bradley-Duffey Electric Co., Norfolk, electric wiring; will be leased by Suffolk Amusement Corp., J. T. Withers; A. Dupree Breeden, Archt., Suffolk. Walls about up.*

Warehouses

Ala., Mobile—Sprague & Hooge, 156 S. Water St., awarded contract to Realty Construction Co., 106 N. Royal St., Mobile, for \$24,000, 2-story, concrete, brick, steel, timber junk warehouse; 70x120 ft. concrete and steel warehouse, composition roof, steel windows.*

Md., Baltimore—Canton Co., Walter B. Brooks, Pres., 24 Commerce St., awarded contract to Price Construction Co., Maryland Trust Bldg., Baltimore, for \$100,000, 3-story, 80x200 ft. addition to Warehouse No. 4.

N. C., Kinston—Liggett & Myers Co. is erecting brick tobacco storage house.

Tenn., Nashville—Plumbing & Heating Supply Co., 1 S. 1st St., awarded contract to Austin-Hardison Co., Nashville, for \$10,000 addition to warehouse; brick walls, steel girders, metal windows; Asmus & Clark, Archts., Stahlman Bldg., Nashville.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Art Glass.—Rev W. P. Price, Pastor, Calvary Baptist Church Alexandria, La.—Wants art glass for church.

Boiler.—Hackley Morrison Co., Inc., (Machinery Dealer), 1708 Lewis St., Richmond, Va.—Wants upright boiler 48 or 50-in. diam., 8½ ft. high for locomotive crane; wire price.

Bridge.—Coahoma County, Fair Point, Miss. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Dept., East Point, Ga., will build 7 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bottles (Ink).—J. M. Torrence, 170 Trinity

Ave., Atlanta, Ga.—Wants ink bottles; correspond with manufacturers.

Bridge.—State Highway Dept., East Point, Ga., will build 3 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge and Culvert Material.—John W. Scott, Harrison County Judge, Marshall, Tex., will receive bids July 1 for following: 26 lin. ft. of 15-in., 226 lin. ft. of 18-in., 520 lin. ft. of 24-in., 226 lin. ft. of 30-in., and 102 lin. ft. of 36-in. corrugated pipe; 46.86 B. M. ft. of creosoted timbers; 3360 ft. of bridge piling; W. J. Warren, County Engineer, Hallsville, Tex.

Bridges.—Dyer County, Dyersburg, Tenn.

Details under Construction News—Bridges, Culverts, Viaducts.

Bridge Materials, etc.—John W. Scott, Harrison County Judge, Marshall, Tex.—Will receive bids July 1 for following quantities: 28 lin. ft. of 15-in.; 226 lin. ft. of 18-in., 520 lin. ft. of 24-in., 221 lin. ft. of 30-in. and 102 lin. ft. of 26-in. corrugated pipe; 46.86 B. M. creosoted timbers; 3360 lin. ft. of bridge piling; W. J. Warren, County Engr., Hallsville, Tex.

Brush and Poles.—Mississippi River Commission, First and Second Dist., 1006 McCall Bldg., Memphis, Tenn.—Will receive bids July 23 to furnish 65,000 cords of brush and poles.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Canning Machinery.—Walker S. Utsey, Pres., the Citizens Bank, St. George, S. C.—Wants prices on canning machinery.

Canning Plant Machinery.—W. E. Borden, Jr., Goldsboro, N. C.—Wants data and prices on equipment for canning plant; correspond with manufacturers.

Cereals.—Bensussan & Sides, Salonica, Greece.—Wants to correspond with manufacturers of cereals, with view to representation.

Counter (Soda Fountain) Equipment etc.—St. Petersburg Coliseum Corp., Inc., C. F. Cullen, Pres., St. Petersburg, Fla.—Wants about Sept. 1 equipment for soda fountain and cigar counter.

Crane (Locomotive).—Lewter F. Hobbs, Incorporated, Monticello Ave., Norfolk, Va.—Wants 8-wheel standard-gauge locomotive crane, 20-ton capacity, double drum, first-class used condition; state location and price.

Creosoting Plant Machinery.—W. G. Burchfield & Brother, 315 Kress Bldg., Houston, Tex.—Wants data and prices on machinery for creosoting plant; correspond with manufacturers.

Cycle Cars.—Chas. N. Turner, Bradentown, Fla.—Want to correspond with manufacturers of or dealers in cycle cars.

Derrick.—D. C. Ephinstone (Mchy. Dealer) 408 Continental Bldg., Baltimore, Md.—Wants 40 ton stiff leg derrick, good second-hand condition.

Derrick Irons.—H. W. Dexter (Mchy Dealer) Bisbee Bldg., Jacksonville, Fla.—Wants set of stiff leg derrick irons for derrick using 50-ft. boom, 5 to 7 ton capacity.

Drag Line Equipment.—Hackley Morrison Co., Inc. (Mchy. Dealer), 1708 Lewis St., Richmond, Va.—Wants drag line with 100-ft. boom and 1-yd. dipper; either steam or electric; state condition, etc.

Dredging Machine.—O. R. McKinney, State National Bank, Marlow, Okla.—Wants prices on large dredge boat or two small drag line machines; second-hand equipment.

Earthwork.—Mississippi River Comsn., First and Second Dist., 1006 McCall Bldg., Memphis, Tenn.—Will receive bids July 8 to construct about 5,315,000 cu. yds. earthwork in Upper and Lower St. Francis, Reelfoot and White River levee districts.

Electrical Supplies.—U. S. Marine Corps. Quartermaster's Department, Washington, D. C.—Will receive bids June 24 to furnish 48 dry cell batteries, 50 candle brackets, 180 spark plugs, 1 desk lamp, 5 desk electric fans, 1 disc stove, 4 electric toasters, 150 conduit bodies, delivery Quantico, Va., Sch. 587.

Electric Light Plant System.—M. R. Cashman, Chmn. Utilities Comsn., Owatonna, Minn.—Will receive bids July 8 for construction of 1000 KW steam electric generating plant, complete electric distribution and street lighting system and steam heating system in business district; Arthur L. Mullergren, Conslt. Engr., Fates Bldg., Kansas City, Mo.

Engine (Fire).—U. S. Marine Corps. Quartermaster's Dept., Washington, D. C.—Will receive bids June 23 to furnish one fire engine complete, delivery Quantico, Va. Sch. 584.

Excavator (Drag Line).—J. G. Skelton Co., Inc. (Mchy. Dealer), Railway & Power Bldg., Richmond, Va.—Wants Class 14 or 20 Bucyres drag line excavator, mounted on skids and rollers; state price, date of build, location, etc.

Furnishings (School).—R. L. Moore, Pres., Mars Hill College, Mars Hill, N. C.—Wants prices on beds, chairs, tables, lavatories,

showers, etc., to be needed in Sept. for dormitory to accommodate 85 boys; will decide soon on radiators, heating system, etc.

Furniture (Office), etc.—St. Petersburg Coliseum Corp., Inc., C. F. Cullen, Pres., St. Petersburg, Fla.—Wants about Sept. 1, tables and chairs for the loges and cafe, furniture for office, hostess room, smoking room and equipment for soda fountain and cigar counter.

Furniture (School).—Executive Committee, Board of Education, care of Hume-Fogg High School Bldg., Nashville, Tenn.—Will receive bids July 11 on five hundred No. 2 single desks, semi-steel and tubular steel desks; delivery f.o.b. Nashville, on or before Sept. 1.

Garage Equipment.—Twelfth Street Garage, C. A. Vaden, Pres., Wheeling, W. Va.—Wants data and prices on latest equipment for wash racks.

Gate Valves, etc.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore Md.—Will receive bids July 2 to furnish and deliver gate valves, sluice gates, operating stands, etc. to Highways Engineer Dept., Material Contr. No. 45; Bernard L. Crozier, Highways Engr.

Generator Set.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids July 21 for Diesel engine driven generator equipment for standby generator stations. Blank forms and information (Circular 1617) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; 611 Gravier St., New Orleans, La., and Fort Mason, San Francisco, Cal., also U. S. Engineer offices throughout country.

Generator Set.—George Sachsenmaier Co., 926 N. Third St., Philadelphia, Pa.—Wants 300 k.w. 250 volt generator to engine.

Generator Set.—C. M. Roswell, (Mchy. Dealers) 1162 Marlyn Rd., Philadelphia, Pa.—Wants 300 k.w. 600 volt, D. C. generator set, direct connected to and mounted on a common cast iron base with a 2300 volt, phase 60 cycle motor.

Glass (Leaded).—Westminster Presbyterian Church, D. W. Hancock, Chmn. Bldg. Comm., care Bluefield Furniture Co., Bluefield, W. Va.—Wants leaded glass.

Grading.—State Board of Public Affairs, Oklahoma City, Okla. Details under Construction News—Road and Street Construction.

Gravel.—Board of Supervisors, C. E. Kimmerly, Pres., Crowley, La.—Will receive bids July 1 for approximately 9000 cu. yds. washed gravel, for road surfacing in Dist. No. 2, Sixth Ward; Acadia Parish; state prices f.o.b. cars quarry and Crowley.

Gravel.—Louisiana Highway Comm., Raymond Bldg., Baton Rouge, La.—Will receive bids July 10 to furnish gravel to surface 6.95 mi. in State Project No. 315-A.

Hack Saw.—J. M. Butler & Son, Suffolk, Va.—Wants to buy used power hack saw with vise not under 8x8; good condition.

Hammer (Steam Pile).—H. W. Dexter (Mchy. Dealer) Bisbee Bldg., Jacksonville, Fla.—Wants No. 7 McKlerman Terry or other similar make steam pile hammer.

Heating Plant.—E. W. Timberlake, Chmn. Building Committee, Wake Forest College, Wake Forest, N. C.—Will receive bids July 8 for the installation of central heating plant; Wilson, Berryman & Kenedy, Archts., Columbia, S. C.

Heating System.—Carl Roeper, Comal County Judge, New Braunfels, Tex.—Will receive bids June 28 for remodeling heating system in county courthouse.

Heating System.—Treasury Dept., Supvg.

Architects Office, Washington, D. C.—Will receive bids July 10 for new coal room and changes in heating system in U. S. Post Office, Martinsburg, W. Va.

Hoist (Motor Driven).—Hackley Morrison Co., Inc. (mach. dealers), 1708 Lewis St., Richmond, Va.—Wants motor driven hoist complete with 220-volt, 3 phase 60-cycle A. C. motor, including hand starter having overload and under-voltage protection, hoist capable of pulling a car weighing 8000 lbs. up a 35-degree incline at speed of 200 to 300 ft. per min.; maximum length of incline is 1000 ft.; state if equipment can be furnished with or without motor.

Hollow Tile.—C. O. Wantland, Sinton, Tex.—Wants data and prices on hollow tile for hatchery.

Ice Plant Machinery.—W. H. Carson, Taylorsville, N. C.—Wants prices on machinery for 6 to 10 ton capacity ice plant.

Incandescent Lights.—Board of Awards F. A. Dolfield, Register, City Hall, Baltimore, Md.—Will receive bids July 2 to furnish and deliver incandescent lamps; J. Reese Pitcher, City Purchasing Agent.

Levee Construction.—U. S. Engineer office, Custom House, 140 Decatur St., New Orleans, La.—Will receive bids July 8 to construct about 5,922,350 cu. yds. of earthwork in the Lower Tensas, Atchafalaya, Lafourche, Barataria, Pontchartrain, and Lake Borgne levee district.

Lumber.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids June 25 to furnish 29,400 bm. ft. pine flooring, 10,300 bm. ft. pine lumber, 7600 bm. ft. pine bevel siding delivery Hampton Roads, Va.; 10,000 bm. ft. white hickory lumber, delivery Quantico, Va. Sch. 591.

Metal Partitions.—Board of Awards, F. A. Dolfield, Register, City Hall, Baltimore, Md.—Will receive bids July 2 for metal partitions in stair well, main building, Bay View Asylum; C. H. Osborne, Inspector of Buildings.

Mining Equipment.—Kinzer Price Mountain Coal Co., Wirt Dunlap, Sec., Blacksburg, Va.—Wants boiler, hoister, mine cars and pumps for coal mine.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Will receive bids July 1 to furnish ignition cable; controller segments; auto-tire pumps; storage batteries; soldering irons; oilers; steel stamping letters; brass barrel bolts; glass push plates; rubber matting; metallic and steel tapes; tarred roofing; Ferro silicon; silica wash, white bond paper, etc. Blank forms and information (Circular 2354) on application to offices of Panama Canal, Asst. Purchasing Agents at Fort Mason, San Francisco, Cal.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Agent, Washington, D. C.—Will receive bids July 9 to furnish wire rope; wrecking cranes; pump; dish-cleaning machines; refrigerators; asphalt-prepared roofing; steel tires; sash chains; screws; nuts pneumatic and solid-rubber tires; tubes; silica sand; canvas and horsehide gloves; lanterns; sledge handles; locks and hinges; water buckets, etc. Blank forms and information (Circular 1616) on application to offices of Panama Canal; Asst. Purchasing Agents at 24 State St., New York; New Orleans; Fort Mason, San Francisco, Cal.; also U. S. Engineer offices throughout country.

Motor.—R. S. Armstrong & Bro. Co. (Mchy. Dealers) Atlanta, Ga.—Wants one 100 h.p., 3 phase, 60 cycle, 2200 volt motor.

Motor.—Hackley - Morrison Co., Inc. (mach. dealer), 1708 Lewis St., Richmond, Va.—Wants 2 HP direct current, 115-volt, 1250 RPM motor with 5 or 6-in. pulley.

Motor Vehicle License Plates.—South Carolina State Highway Comm., L. H. Thomas, Sec., 1626 Main St., Columbia, S. C.—Will receive bids July 1 to deliver official motor vehicle license plates for the year 1925.

Mower (Lawn).—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids June 24 to furnish one motor power lawn mower, delivery San Francisco, Cal. Sch. 583.

Paving.—City of Owensboro, Ky. Details under Construction News—Road and Street Construction.

Paving.—City of Salisbury, N. C. Details under Construction News—Road and Street Construction.

Paving.—Town of Seabreeze, Fla. Details under Construction News—Road and Street Construction.

Paving.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Paving.—Town of Walhalla, S. C. Details under Construction News—Road and Street Construction.

Paving.—City of Denmark, S. C. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Jackson, Tenn. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Birmingham, Ala. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Miami, Fla. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Laurel, Miss. Details under Construction News—Road and Street Construction.

Paving, etc.—City of Gainesville, Fla. Details under Construction News—Road and Street Construction.

Paving, etc.—Board of Commrs., Street Improvement Dist. No. 384, Little Rock, Ark. Details under Construction News—Road and Street Construction.

Petroleum Products.—Board of Awards, F. A. Delfield, Register, City Hall, Baltimore, Md.—Will receive bids July 2 to furnish and deliver petroleum products to various city departments; J. Reese Pitcher, City Purchasing Agent.

Pipe (Corrugated and Cast Iron).—Davies County Fiscal Court, Owensboro, Ky.—Will receive bids July 1 on 12, 15, 18, 21, 24, 30, 48, 60 and 72-in. corrugated iron pipe; also on 10, 14, 16, 18, 24 and 30-in. cast iron pipe; f.o.b. cars Owensboro; Harry A. Cooper, County Road Engr.

Plumbing.—Charles M. Brown, Sec., Severn Country Club, 108 W. Mulberry St., Baltimore, Md.—Will receive bids to furnish and install one concrete septic tank, size 15 x6x5-ft. with terra cotta drain line from house to ravine not to exceed 258-ft.; give alternate bid on using kaustine septic tank, capacity 2250 gal. for 300 persons; also to furnish and not install 100 ft. of 6-in. galvanized pipe cut in lengths of 10-ft. with couplings on each end; furnish and install two 12-in. cesspools with brick catch basins, and connecting same to sewer.

Pump (Deep Well).—Charles M. Brown, Sec., Severn Country Club, 108 W. Mulberry St., Baltimore, Md.—Will receive bids to furnish and install one duro deep well pump, 525-gal. galvanized tank, 525 gal. per hour, 1-H. P. motor.

Radial Drill.—H. W. Dexter, (Mchy. Dealer) Bisbee Bldg., Jacksonville Fla.—Wants 5 or 6-ft. radial drill, second-hand equipment.

Rails.—W. C. Briddell Co., Inc., 19 E. Lom-

bard St., Baltimore, Md.—Wants to exchange any part of 1800 tons of 50, 56 and 60-lb. rail for 25 and 40-lb. sections; latter would be delivered to Tye River, Va., on Southern R. R.

Refrigerator.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids June 25 to furnish one refrigerator, delivery Quantico, Va. Sch. 590.

Refrigerating Plant.—Treasury Dept., Supervising Architect's Office, Washington, D. C.—Will receive bids July 9 for ice making and refrigerating plant at U. S. Marine Hospital, Savannah, Ga.

Road.—State Highway Dept., East Point, Ga., will build 4 roads. Details under Construction News—Road and Street Construction.

Road.—Marion County, Fairmont, W. Va., will improve 19 roads. Details under Construction News—Road and Street Construction.

Road.—Marion County, Fairmont, W. Va., will improve 12 roads. Details under Construction News—Road and Street Construction.

Road.—Williamson County, Georgetown, Tex. Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., East Point, Ga., will improve 4 roads. Details under Construction News—Road and Street Construction.

Road.—Madison Parish, Tallulah, La. Details under Construction News—Road and Street Construction.

Road.—Angelina County, Lufkin, Tex. Details under Construction News—Road and Street Construction.

Road.—Garfield County, Enid, Okla. Details under Construction News—Road and Street Construction.

Road.—State Road Dept., Tallahassee, Fla., Details under Construction News—Road and Street Construction.

Road.—State Road Comm., Baltimore, Md., will build 9 roads. Details under Construction News—Road and Street Construction.

Road.—Harrison County, Marshall, Tex. Details under Construction News—Road and Street Construction.

Road.—Louisiana Highway Comm., Baton Rouge, La. Details under Construction News—Road and Street Construction.

Rolls (Power or Hand).—Daves Construction Supply Co., Thomasville, Ga.—Wants a set of power or hand rolls for rolling light gauge iron sheets, large enough to take sheet 56-in. wide.

Seating.—Westminster Presbyterian Church, D. W. Hancock, Chmn. Bldg. Committee, care Bluefield Furniture Co., Bluefield, W. Va.—Wants pews.

Seating.—Rev. W. P. Price, Pastor, Calvary Baptist Church, Alexandria, La.—Wants church pews.

Septic Tanks.—Chesterfield Realty Corp., 107 Richmond Trust Bldg., Richmond, Va.—Wants prices on septic tanks for residential, suburban property; correspond with manufacturers.

Sewer.—See Paving, etc.

Sewer Construction.—City of Little Rock, Ark. Details under Construction News—Sewer Construction.

Sewer System.—City of Denmark, S. C. Details under Construction News—Sewer Construction.

Shingles (Strip).—U. S. Marine Corps,

Quartermaster's Dept., Washington, D. C.—Will receive bids June 27 to furnish 210 squares strip shingles; delivery Quantico, Va. Sch. No. 590.

Sidewalk Paving.—City of Lakeland, Fla. Details under Construction News—Road and Street Construction.

Spark Plugs, etc.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Will receive bids July 1 for delivering spark plugs, electric grab buckets, pure lard oil, monel metal and phosphor bronze to Navy Yard.

Spreader Car.—Edward W. Peters, 103 Lower Mulberry St., Danville, Pa.—Wants standard spreader car, standard gauge.

Steam Shovel.—T. H. Letson Co., 50 Church St., New York.—Wants 1½ yd. modern steam shovel on traction wheels; state condition; Southern delivery.

Steel Roofing.—U. S. Marine Corps, Quartermaster's Dept., Washington D. C.—Will receive bids June 25 to furnish 475 sheets steel roofing, delivery Hampton Roads, Va. Sch. 589.

Storm Drains and Water Mains.—Town of Seabreeze, Fla. Details under Construction News—Sewer Construction.

Street Cleaning Equipment.—Board of Public Service, Charleston, S. C.—Will receive bids July 1 for 10 can carriers, and approximately 50 street cleaning cans; state prices f.o.b. Charleston; J. H. Dingle, City Engr.

Street Improvement.—City of Henderson, Tenn. Details under Construction News—Road and Street Construction.

Street Marking Machine.—Allan M. Wilson, Mayor, Fayetteville, Ark.—Wants small machine to paint traffic lines on paved street.

Timber.—Coahoma County, Board of Supvrs., Friar Point, Miss.—Will receive bids July 9 for timber material for 120-ft. creosoted pile timber bridge.

Tires and Tubes.—City of Norfolk, Va., W. H. C. Ransone, Purchasing Agent.—Will receive bids June 25 to furnish standard pneumatic cord and fabric automobile tires, regular and over sizes, for period of six months, beginning July 1; also gray and red inner tubes; also for repairing, etc.

Tires and Tubes.—Board of Purchase, City Hall, Savannah, Ga.—Will receive bids June 23 to furnish city with pneumatic tube and tire requirements for 6 months, June 30 to Dec. 31, 1924; sizes are 30x3½-in. to 40x8-in. both inclusive, cord type, first quality make or brand.

Water Mains.—See Storm Drains and Water Mains.

Water Works Extension.—City of Cookeville, Tenn., J. E. Owens, Clk.—Will receive bids June 27 for furnishing and installing complete water works extensions, following estimate quantities:

Section No. 1.—General Construction—Approximately 9 mi. of 4 to 10-in. water mains, together with valves, boxes, fittings and hydrants, 700 cu. yds. rock excavation, 2 brick pump houses, one reinforced concrete settling basin and chemical house, 150 cu. yds. concrete in foundation and footings.

Section No. 2.—Elevated Tank and Tower.—One 250,000-gal. steel tank and tower, 100 ft. to balcony erected complete except foundations.

Section No. 3.—Pumps and Piping Equipment—Motor-driven centrifugal pump capacity 300 G. P. M., installed complete, one marine engine driven centrifugal pump unit, capacity 500, installed complete, against 400-ft. head; one marine engine driven centrifugal pump unit, capacity 500 G. P. M. against 6-ft. head, installed complete; 1 chemical

dry feed alum machine, 1 chlorinator, installed complete, 1 totalizing water meter, installed complete.

Section No. 4. — Transmission line and transformer station.—4.5 mi. of 13,200-volt and 2300-volt transmission line together with step-down transformer station; bids will be received on sections or work as a whole; V. V. Long & Co., Conslt. Engrs., Oklahoma City.

Water Works Improvements.—City of Oxford, N. C. Details under Construction News—Water Works.

Water Works Supplies.—City of Owensboro, Ky., J. H. Hickman, Mayor.—Will receive bids July 1 for the following: 550 ¾-in. corporation cocks with extra heavy lead flange goose necks; 550 ¾-in. round way inverted curb cock keys; 150 5/8-in. goose neck and corporation cocks as above; 50 1-in. curb cocks; 750 adjustable curb boxes to adjust from 18 to 24-in.; E. B. Shibley, City Engr.

Wire (Fence).—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Will receive bids until June 27 for furnishing 500 lin. ft. fence wire; delivery Quantico, Va.; Sch. No. 600.

Wire.—War Department, Office of Signal Supply Officer, New York General Intermediate Depot, 58th St. & 1st Ave., Brooklyn, N. Y.—Will receive bids July 10 for 1,000,000 ft. of wire, type W-30.

Wheels (Children's Wagon).—J. M. Torrence, 170 Trinity Ave., Atlanta, Ga.—Wants wheels for children's wagons; correspond with manufacturers.

Woodworking Machine and Wheelbarrows.—U. S. Marine Corps, Quartermasters Dept., Washington, D. C.—Will receive bids June 27 for furnishing 1 power mortiser and borer; 24 steel barrows; 6 concrete barrows; delivery Quantico, Va. Sch. No. 602.

Financial News

New Financial Corporations

Ala., Russellville—Franklin County Abstract & Title Co. incorporated by A. L. Council, M. L. Smith, O. R. Stampf.

D. C., Washington—Mercantile Securities Corp., capital \$500,000, chartered by A. Edwards, M. E. Reiss and W. S. Selig.

Fla., Avon Park—Avon Insurance Agency, capital \$50,000, incorporated with A. V. Anderson, Pres.; C. H. Moffit, Sec.

Fla., Daytona — Halifax Builders, Inc., chartered with \$100,000 capital; Max Leidersdorf, W. H. Courtney, A. T. Reynolds, interested.

Fla., Daytona — Peninsular Bond & Mortgage Co., capital \$20,000, incorporated with E. E. Eilde, Pres.; Burwell Thornton, Sec.

Fla., Haynes City—Ridge Fire & Marine Insurance Co., capital \$250,000, incorporated with C. G. Somers, Pres.; J. M. Winger, Sec.

Fla., Jacksonville — Florida Mortgages & Securities Co., capital \$65,000, incorporated with F. W. Rivers, Pres., 3 DuPont Circle; R. M. Holder, Sec.

Fla., Lake Wales — American Mortgage & Bond Co., capital \$50,000, incorporated with O. H. Ohlinger, Pres.; A. Branning, Sec.

Fla., Miami—Exchange Agricultural Credit Corp., capital \$25,000, organized with A. C. Castle, Pres., Perrine; B. E. Morrill, Sec.-Treas., Miami.

Fla., Miami—Fidelity Trustees Co., capital \$150,000, incorporated with Chas. W. Hill, Pres.; W. T. Carter, Sec.

Fla., Miami—Menard Investment Co., capital \$100,000, incorporated with C. M. Freeman, Pres.; W. M. Smith, Sec.

Fla., Miami—United Mortgage Corp., capital \$1,000,000, chartered with Roy C. Wright, Pres.; Thomas B. Hamilton, Sec.

Fla., Ocala—Ocala Mutual Building & Loan Assn., capital \$100,000, chartered with Rush H. Todd, Pres.; R. J. Waas, Sec.

Fla., Safety Harbor—Espiritu Santo Springs State Bank, capital \$20,000, incorporated with Joe A. Townsend, Pres.; B. F. Patton, Cashier.

Fla., Tampa—Midway Investment Co. incorporated with M. Reaves, Pres.; Sue Lowe, Sec.

Fla., Vero—Vero Finance & Improvement Corp., capital \$300,000, chartered with A. M. Hill, Pres.; John Leroy Hutchinson, Sec.

Fla., West Palm Beach—Annapolis Finance Corp., capital \$25,000, chartered with Chas. S. Rice, Pres.; Clifton L. Rice, Sec.

Ga., Atlanta—Mortgage Guarantee Co. of America, capital and surplus \$1,500,000, organized with H. C. Williams, Pres., New York; Joseph A. McCord, Jr., Sec., Atlanta Trust Company's Bldg.

Ga., Nashville—Union Banking Co. of Nashville, capital \$25,000, chartered by K. M. Miller, J. J. Hancock, P. H. Askew and others.

Ky., Ravenna — Estill Building & Loan Assn., capital \$200,000, incorporated by H. T. Moore, E. P. Campbell and E. S. Caywood.

La., Bunkie — T. M. Mathews Insurance Agency, incorporated with T. M. Mathews, Pres.; J. S. Pearce, Sec.

Md., Baltimore—Lee Finance & Adjustment Co., 217 N. Calvert St., incorporated by Bernard Langeltt, Martin J. Mullin and C. Morris Harrison.

Md., Baltimore—Commodore Building & Loan Assn., Inc., 504-506 Equitable Bldg., capital \$500,000, incorporated by Joshua B. Colvin, Benjamin Schwartz and Ball Solomon.

Md., Baltimore—Eastern National Building & Loan Association, 3426 Eastern Ave., capital \$50,000, incorporated by I. Y. Kolodner, Wolf Kerson and David L. Morrison, 233 N. Fulton Ave.

Md., Baltimore—The General Building & Loan Association, Inc., of Baltimore, 109 N. Bond St., capital \$250,000, chartered by Hyman Sandler, Benjamin Shifman and Harold E. Kilner.

Md., Baltimore—The Industrial Loan Co. of Baltimore, 455 Calvert Bldg., capital \$10,000, incorporated by C. Howard Hood, Ray Campbell and Edwin H. Brandt.

Md., Baltimore—Own-A-Home Building Assn., Inc., 101 Light St., capital \$650,000, incorporated by Percival S. Whipple, John W. Holloway, James F. Thrift.

Md., Baltimore—Monitor Building & Loan Assn., Inc., 546 Equitable Bldg., capital \$100,000, incorporated by Morris Goden, Wm. Goden and Isaac Chaiken.

Miss., Tupelo—Lee Land & Investment Co., incorporated by J. M. Thomas, V. S. Whitesides, S. J. High.

Mo., Bismarck—Bismarck Building & Loan Assn., capital \$120,000, organized with John Grisham, Pres.; J. F. Schroeder, Sec.*

Mo., St. Louis—Mississippi Valley Brokerage Co., incorporated by Albert Levin, 722 Chestnut St., S. William Kaplan and Stanley A. Stolarkey.

Mo., St. Louis—Traders Securities Co., capital \$10,000, incorporated by Frank Coffman,

Times Bldg.; Owen G. Jackson, Times Bldg. and others.

N. C., Chimney Rock—Chimney Rock Trust Co., capital \$50,000, chartered with J. H. Thomas, Pres., Forest City; J. M. Flack, V.-P., Chimney Rock.

N. C., Greensboro—Automobile Mutual Insurance Agency, capital \$50,000, incorporated by Sidney N. Johnsop, H. S. H. Bldg., Claude Keyser, both Greensboro; Henry D. Perry, High Point, N. C.

Okla., Okmulgee—International Finance & Investment Co., capital \$25,000, incorporated by G. E. Rogers, 713 E. 13th St.; Walter F. Buckethal and others.

S. C., Columbia—J. Pope Matthews and I. M. Mauldin interested in establishing State Bank.

S. C., Greenville—Bankers Security Co., organized by J. W. Norwood, Pres. Norwood National Bank of Greenville, and officials of Bank of Charleston.

S. C., Williston—Williston Building & Loan Assn., organized with J. L. Smith, Pres.; James A. Kennedy, Sec.-Treas.

Tex., Cameron—Texas Trust Co. of Cameron, capital \$50,000, chartered by J. S. Barmore, J. L. Clinton, Dr. T. J. Denson and others.

Tex., Dallas—Community Investment Co., capital \$20,500, incorporated by L. Coniglio, 3309 San Jacinto St.; T. Camell and C. S. Pappa.

Tex., Dallas—Garrett-Carmichael Investment Co., capital \$5000, incorporated by W. N. Garrett, 1743 Eugene St.; John Carmichael, 229 N. Waverly Drive, and others.

Tex., Hillsboro—Eastland Title Guaranty Co., Farmers' National Bank Bldg., capital \$100,000, organized with Herman Eastland, Sr., Pres.; Herman Eastland, Jr., Sec.-Treas., successors to H. Eastland Abstract Co.*

Tex., San Antonio—Alamo Investment Co., capital \$50,000, incorporated by I. Arbetter, 446 Cooper St.; Barney Sadovsky and others.

W. Va., Morgantown—Labor Co-operative Bank of Morgantown, plans organizing with \$100,000 capital; Minter L. Wilson, Monongahela Bldg., interested.

New Securities

Ala., Russellville — Funding — Franklin County Court of Revenue, John D. Petree, Judge of Probate and Chmn. of Court of County Revenue, will receive bids June 30 for \$100,000 5½% bonds.

Ark., Camden—School—Board of Directors, W. R. Smith, Sec., will receive bids June 28 for \$125,000, 6 per cent or 5½ per cent bonds.

Ark., Conway—Water-Works—City sold \$78,000, 5½ per cent Dist. No. 2 bonds, to Federal Commerce Trust Co., St. Louis.

Ark., El Dorado—Sewer—Board of Comms., Sewer Dist. No. 4 will receive bids July 5 for \$269,500, 5½ per cent bonds.

Fla., Arcadia—Road and Jail—De Soto County Comms. sold \$1,000,000 5% road bonds jointly to Spitzer, Rorick & Co., Blanchet, Thornbaugh & Vandersall, all Toledo, and Caldwell & Co., Nashville, Tenn., at 95¼, and \$60,000 5½% jail bonds to Pauly Jail Building Co., St. Louis, Mo., at par and accrued interest.*

Fla., Bartow—Road—Polk County, Road and Bridge Dist. No. 3 voted \$615,000 bonds; will receive bids July 21 for \$615,000, 6 per cent, \$1000 denom. bonds; J. D. Raulerson, Clk. County Comms.

Fla., Bartow—Road—Polk County will vote this week on \$550,000 bonds. Address County Comms.

Fla., Bithlo—Street Improvement—City will receive bids July 5 for \$35,000, 6 per cent bonds; M. M. Macey, Town Clk.

Fla., Crescent City—School—School Trustees will call election soon to vote on \$50,000 bonds. Address Pres. of Board.

Fla., Davenport — Water-Works—Town. Charles A. Crisp, Clk., will receive bids July for \$55,000, 6 per cent, \$1000 denom. bonds.*

Fla., DeLand — School — Volusia County Board of Instruction will receive bids July 10 for \$15,000 5½% \$500 denom. Special Tax School Dist. No. 41 Daytona Beach-Seabreeze bonds; Geo. W. Marks, Sec.

Fla., Fort Myers—Road, Bridge, and Indebtedness—Lee County Comms., J. F. Garner, Clk., will receive bids July 9 for \$1,650,000, 5½ per cent bonds.*

Fla., Moore Haven — Highway—Glades County sold \$277,000, 6 per cent bonds to J. C. Mayer & Co., Cincinnati, Ohio, at premium of \$1390.*

Fla., Ocala—Municipal Improvements—City will vote Aug. 5 on \$320,000 bonds, including \$200,000 street; \$40,000 water main extension; \$75,000 sewerage; \$5000 park. Address The Mayor.

Fla., Ocala—Road—Marion County Comms., T. D. Lancaster, Jr., Clk., will receive bids July 14 for \$1,500,000 5% \$1000 denom. bonds; bids opened June 7 rejected.*

Fla., Palatka—Bridge—Putnam County, Trustees Dist. No. 7, will receive bids July 17 for \$500,000, 5½ per cent bonds.

Fla., Tavares—Street Paving—City sold \$115,000 bonds to Florida Municipals, Inc., and A. C. Mayer & Co., at \$96.55 per \$100. Address The Mayor.

Ga., Atlanta—Street Improvement—City sold \$164,000 5% bonds to Hibernia Security Co., Hibernia Bldg., New Orleans, at \$168,542.80.

Ga., College Park — Water Works, Sewerage and Fire Dept.—City sold \$73,000, 5 per cent \$1000 denom. bonds to J. H. Hilsman & Co., Inc.

Ga., Ellenton—School—City sold \$10,000, 6 per cent bonds to First National Bank of Moultrie at discount of \$200.*

Ky., Newport—Campbell County, Wm. Milius, Clk., sold \$250,000 5% bonds to Weil, Roth & Irvin for par and premium of \$5505.*

La., Gretna—Road—Jefferson Parish voted \$500,000 bonds; Wm. Hepting, Sec. Police Jury.*

La., Houma—Electric Light, Water-Works, Filtration Plant—City, E. D. Dupont, Mayor, will vote July 15 on \$100,000, 6 per cent bonds.

La., Mansfield—Road—De Soto Parish Jury, G. Williams Wharton, Sec., will receive bids July 8 for \$805,000, 5 per cent bonds.

La., Minden—Road—Webster Parish voted \$650,000 bonds, including \$500,000 in Road Dist. No. 1 and \$150,000 in Road Dist. No. 2. Address Parish Police Jury.

Md., Belair — School — Harford County Comms., T. Burling Grafton, Pres., will receive bids June 30 for \$150,000 5% Tax Exempt Harford County Public School bonds.

Md., Centerville — Road — Queen Anne's County sold \$21,000 5% bonds to Brinkman & Co., 109 E. Redwood St., Baltimore, at 104.895.*

Md., Frederick—Road—Frederick County Comms. sold \$50,000 4½% bonds to Baker, Watts & Co., Calvert and Redwood Sts.; Nelson, Cook & Co., Calvert and Redwood, and Townsend Scott & Son, 209 E. Fayette St., all Baltimore, at 101.386.*

Md., Laurel—Municipal Building—City will vote July 8 on \$20,000 bonds. Address The Mayor.

Md., Oxford—Water—City, Henry Wilcox, Mayor, defeated \$30,000 bond issue. Supercedes recent item.

Md., Ridgeley—Water, Sewer—City, I. S. Dietrick, Mayor, will vote in Aug. on \$35,000 bonds.*

Md., Rockville—Lateral Road—Montgomery County sold \$33,000 4½% \$1000 denom. bonds to Stein Bros. & Boyce, 6 S. Calvert St., and Mercantile Trust & Deposit Co., Calvert and Redwood Sts., all Baltimore.*

Md., Salisbury—Water and Sewer—City, Mayor Kennerly, voted bonds.*

Md., Towson—School—Baltimore County plans voting in Nov. on \$1,500,000 bonds. Address George M. Kimberly, Pres., Catonsville Improvement Assn.

Md., Upper Marlboro — Road — Prince George's County sold \$29,000 5% bonds to Stein Bros. & Boyce, 6 S. Calvert St., and Mercantile Trust & Deposit Co., Calvert and Redwood Sts., all Baltimore.*

Miss., Charleston — Road — Tallahatchie County sold \$260,000 bonds to Caldwell & Co., Nashville, Tenn.

Miss., Ellisville—School—Jones County defeated \$100,000 bond issue. Address Board of Supvrs.*

Miss., Natchez—Municipal Ferry—City, L. A. Whittington, Mayor, sold \$75,000 bonds to Central State National Bank of Memphis, Tenn., at par.

Miss., Pass Christina—Street Paving—City, Martin Farrell, Clk., will receive bids July 1 for \$80,000 6% bonds.*

Mo., Carterville—School—City plans selling \$4000 5% bonds. Address The Mayor.*

Mo., Milan—Courthouse—City will vote July 8 on \$150,000 bonds. Address The Mayor.

Mo., Miller—Electric Transmission Line—City, J. R. Meey, Mayor, sold \$13,000 bonds to Fidelity Trust Co., Kansas City, Mo.

Mo., Nevada—Subway—City voted \$100,000 bonds; J. J. Lindley, Mayor.*

Mo., Raytown—School—City sold \$27,000 Consolidated Dist. No. 2 school bonds to Prescott, Wright & Snider Co., Kansas City, at par.

Mo., St. Louis — Subway — Board of Aldermen will call election soon to vote on \$20,000 bonds.

Mo., Webb City—Paving—City contemplates bond issue. Address The Mayor.

N. C., Ahoskie—Electric—City sold \$15,000 bonds to Farmers-Atlantic Bank of Ahoskie at premium of \$200.*

N. C., Asheville—Road—Buncombe County, Board of Comms., Geo. A. Digges, Jr., Clk., will receive bids July 8 for \$300,000 4% or 5 per cent bonds.

N. C., Biltmore—Municipal Building—City sold \$40,000, 6 per cent bonds to Prudden & Co., Toledo, Ohio, at premium of \$27,000.*

N. C., Elizabeth City—Fund and Refund—City contemplates \$30,300 bond issue; J. H. Snowden, Clk.

N. C., Elizabeth City—Street Improvements—City, J. H. Snowden, Clk., contemplates \$35,700 bond issue.

N. C., Gastonia—School—Gaston County, L. E. Rankin, Clk., voted \$50,000 bonds.*

N. C., Lexington — School — Board of Comms. will call election July 22 to vote on \$150,000 bonds.

N. C., Lumberton—Road and Bridge—Robeson County, M. W. Floyd, Clk., will receive bids July 7 for \$25,000 5% bonds.

N. C., Morehead—Street and Drainage Improvements—Town, N. R. Webb, Clk., sold

\$250,000 6% bonds to Bowman & Co., at par and accrued interest.*

N. C., Mt. Olive—Street Improvement—City sold \$100,000 bonds to Prudden & Co., Toledo, Ohio, at premium of \$533.

N. C., Raleigh—Road—Governor Cameron Morrison and Council of State sold \$10,000,000 4½% bonds to First National Bank and associates, New York, at premium of \$5000.

N. C., Walnut Cove—Water and Electric Light, Sewer, Street Improvement—Town, H. R. McPherson, Clk., will receive bids July 2 for \$80,000 6% \$1000 denom. bonds, including \$50,000 water, electric light and sewer system, and \$30,000 street improvement.

Okla., Holdenville—Road—Hughes County voted \$400,000 bonds; Roy Grace, County Engr.*

Okla., Hollister—Water Works—City sold \$15,000 bonds to Calvert & Cantfield, Oklahoma City.

Okla., Norman—Road—Cleveland County will sell \$200,000 bonds. Address County Comms.

Okla., Nowata—Road—Nowata County will vote July 22 on \$500,000 bonds. Address County Comms.

Okla., Tulsa—Sewer and Park—City sold \$800,000 sewer and \$150,000 park bonds to C. Edgar Honnold, First National Bank Bldg., Oklahoma City.

S. C., Campton—School—Campton School Dist. voted \$20,000 bonds. Address Dist. School Trustees, care of L. E. Robinson.

S. C., Clinton—School—Laurens County School Dist. No. 5 will receive bids July 1 for \$80,000 5% bonds; B. H. Boyd, Trustee, Hunter School Dist. No. 5.

S. C., Greenwood—Road—Greenwood County, Board of Supvrs., will receive bids this week for \$30,000 5% bonds; A. J. Bell, County Supvr. and Chmn. of Board.

S. C., Greenville—Road—Greenville County sold \$200,000 bonds to Stevenson, Perry, Stacey & Co., Toledo, Ohio, at 103.51.*

S. C., Parksville—School—Parksville, Modoc, Clarks Hill, School Dist., J. H. Drennan, Jr., Chmn. Board of Trustees, sold \$30,000 6% Washington School Dist. bonds to G. C. McDaniel.*

Tenn., Bristol—Municipal Improvements—Board of Comms. sold to First National Bank, Bristol, \$93,000 5% and 6% bonds, including \$35,000, waterworks; \$25,000, sewer; \$11,000, general improvement; \$22,000, street improvement.

Tenn., Johnson City—School—Washington County Election Board will call election Aug. 11 to vote on \$350,000 bonds.

Tenn., Maryville—Viaduct and Street Paving—City, J. L. Tweed, Recorder, will receive bids July 1 for \$75,000 5% bonds.*

Tenn., Nashville—Improvement—City authorized sale of \$490,000 bonds, including \$160,000 street improvement, \$130,000 general improvement and \$200,000 for widening Church St. Address The Mayor.*

Tex., Anson—Road—Jones County, J. F. Lindsey, Judge, will receive bids July 15 for \$325,000 5% bonds.

Tex., Boston—School—Bowie County sold to State Board of Education \$3500 School Dist. No. 24 bonds and \$2500 Bowie County Common School Dist. 25 bonds.

Tex., Canton—Hospital—City will vote June 28 on \$50,000 bonds. Address The Mayor.

Tex., Celina—Street Paving—City will vote July 12 on \$20,000 bonds; J. Edgar Ousley, Mayor.

Tex., Colorado—Road—Mitchell County defeated \$325,000 bond issue. Address County Comms.*

Tex., Crawford—Water and Electric Plant—City plans voting on bonds. Address The Mayor.

Tex., Dodsonville—School—City sold \$16,000 5½% Independent School Dist. bonds to Farmers & Merchants State Bank of Childress at par.*

Tex., Edinburg—Flood Control and Prevention—Hidalgo County voted \$1,260,000 bonds. Address County Commrs.*

Tex., Enloe—School—Enloe Independent School Dist. sold \$25,000 bonds to State Board of Education at par and accrued interest.

Tex., Farmersville—School—City voted \$80,000 bonds. Address The Mayor.

Tex., Galveston—School—City, Anne C. Kelley, Sec., sold \$480,000 5% bonds to Parsons Sons & Co., 115 Broadway, New York, at par, accrued interest and premium of \$1,950.*

Tex., Henrietta—Road—Clay County Road Dist. No. 7 will vote July 8 on \$60,000 bonds; D. M. Puckett, County Engr.; J. F. Vaden, County Judge.

Tex., Kemp—School—Board of Trustees will call election July 5 to vote on \$44,000 bonds. Address Pres. of Board.*

Tex., Kilgore—School—City will vote July 2 on bonds. Address The Mayor.

Tex., Llano—School—Board of Trustees will call election July 8 to vote on \$60,000 bonds. Address Pres. Board of Trustees.

Tex., Lufkin—Water and Sewer—City will vote July 15 on \$125,000 bonds; C. N. Humason, City Mgr.*

Tex., McAllen—Street Paving—City will vote June 28 on \$60,000 bonds; F. B. Freeland, Mayor.

Tex., New Braunfels—School—City voted \$90,000 bonds. Address Pres. School Board.

Tex., Normangee—Road—Leon County voted \$140,000 bonds. Address County Commrs.*

Tex., Perico—Perico-Mountain View Consolidated School Dist. voted \$30,000 bonds. Address Pres. School Board.

Tex., Port Neches—School—Board of Trustees, C. C. Hawkins, Pres., will call election July 12 to vote on \$146,000 5½% bonds.

Tex., Rockport—Road—Aransas County voted \$250,000 bonds. Address County Commrs.

Tex., Roscoe—School—Board of Trustees, E. J. Worthy, Sec., sold \$25,000 6% Roscoe Independent School Dist. bonds to George L. Simpson & Co., Dallas, Tex., at \$101½.*

Tex., San Angelo—School—City, Lakeview Section, voted \$14,000 bonds; W. D. Holcomb, Mayor; E. I. Jackson, City Mgr.*

Tex., Stephenville—Road—Erath County voted \$35,000 bonds; A. P. Young, County Judge.

Tex., Sulphur Springs—Road—Hopkins County sold \$43,000 5½% bonds to M. W. Flkins & Co., 217 W. 2nd St., Little Rock, Ark.

Va., Gate City—School—Division Supt. of Schools will receive bids this week for \$18,000 6% Eastville School Dist. bonds. Address R. M. Daugherty, Sec., Scott County School Board.

Va., Richmond—Water Works, General Improvement—Committee on Finance, Barton H. Grundy, Chmn., sold to Eldredge & Co. at \$718,144 \$700,000 4½% bonds, including \$200,000 water works and \$500,000 general improvement.*

Va., Richmond—Road—Henrico County, Tuckahoe Dist., voted \$175,000 bonds. Address S. B. Waddill.*

W. Va., Bluefield—Improvement—City sold

\$350,000 5% bonds to Title Guarantee & Trust Co., Cincinnati, Ohio, at par plus premium of \$350.

W. Va., Lewisburg—Road—Greenbrier County plans bond issue. Address County Commrs.

W. Va., Weston—Road—Lewis County contemplates \$400,000 bond issue for Court House Dist. Address County Commrs.

Financial Notes

Indian River Abstract Co., Cocoa, Fla., plans increasing capital to \$100,000; H. C. Conkling, Ch. Abstractor.

Mortgage Security Corporation of America, Norfolk, Va., increased capital from \$250,000 to \$1,000,000.

West Mortgage & Loan Co., Houston, Tex., increased capital from \$50,000 to \$100,000.

Shook Investment Co., Rich Field St., Waco, Tex., plans increasing capital from \$100,000 to \$120,000.

The Kosciuszko Permanent Loan & Savings Association of Baltimore, Md., 1635 Eastern Ave., increased capital to \$5,000,000.

Trade Literature

Dry Feed Chemical Bulletin.

Dry feed chemical application is the subject of Bulletin D. F. No. 1 issued by the Municipal Service Co., Pittsburgh, Pa., which tells about their X-L dry feed machine which is illustrated. This machine may be run with either electric or water motor, the latter being generally preferred because water is required for dissolving the chemical. The machine is made in two sizes.

Four New Machinery Bulletins.

The Sullivan Machinery Company of Chicago have printed new editions of several of their bulletins, these including Bulletin 77-H of 32 pages relative to angle-compound compressors; Bulletin 77-K of 16 pages, showing that Sullivan angle-compound compressors as now built embody tandem wafer valves on all sizes, and three pass intercoolers with copper intercooler tubes as standard, also showing the straight line single-stage compressors belt driven, WG-6 and WH-6, two stage; Bulletin 70-X, second edition, relating to compressed air spaders, giving new illustrations of these clay-digging machines; Bulletin 78-B describing the straight-line steam-driven and belt-driven vacuum pumps for vacuum service and equipped with wafer valves.

Bulletins About Paper Pulleys.

The Rockwood Manufacturing Company, of Indianapolis, Indiana, have published two bulletins numbered respectively 545 and 546 telling about the superiority of the Rockwood paper pulleys, of which 2186 sizes are carried in stock ready to ship, and ranging from two inches to fourteen inches in diameter. Thus the company is able to speed up deliveries and accomplish savings in costs. One of these bulletins lists the different diameters of the pulleys and also their face widths, with their shaft sizes. As in the past the company continues to make pulleys up to 72 inches in diameter according to customers' specifications, but in the case of orders for stock pulleys shipment is made, it is stated, on the day that an order is received.

An Insulation Booklet.

A new booklet recently published by the Westinghouse Electric & Manufacturing Co., of East Pittsburgh, Pa., is designated as Folder 4532-A and deals with Westinghouse fabrics and papers for insulating purposes. All forms of treated and untreated fabrics, papers, sleeving, tapes, cords and thread manufactured by the company are fully described and their principal applications are given.

Two Bulletins About Motors.

Two bulletins lately issued by the Ohio Electric & Controlling Company, Cleveland, Ohio, give full particulars about the Ohio motors made by that corporation. Bulletin No. 204 presents descriptions with illustrations of these Fractional Size A. C. and D. C. motors. The other publication, called "Ohio Motor Application Bulletin," illustrates numerous applications of these machines. Each of the bulletins is finely printed and the pictures are of a superior character.

About a Convertible Steam Shovel.

Bulletin 61 of the McMyler-Interstate Company, Cleveland, Ohio, is about the new McMyler-Interstate steam shovel, which is rated at three-quarter cubic yard capacity and is readily convertible from a steam shovel to a locomotive crane. In contrast to some other types of steam shovels this machine includes as standard equipment double-power drums and a self-locking, worm-driven boom hoist. The change from shovel to crane can be made in the field without special equipment in less than an hour. The bulletin is liberally illustrated and the descriptions, tables, etc., are complete.

A Valuable Circular on Power Factor.

A new 20-page publication of the Westinghouse Electric & Manufacturing Co., Circular No. 1670, relates to "Static Condensers for Power Factor Correction," that being its caption. The need for power factor correction and the methods of obtaining high power factor are discussed, the method of selecting the proper corrective device for power factor is analyzed and the fields of application of synchronous and static condensers are set forth in diagram form. A complete illustrated description of Westinghouse Type LD static condensers, with wiring diagrams for two and three phase equipment, is included, together with other valuable data.

Coating Metals With Metals.

A pamphlet lately issued by the Metals Coating Company of America, 495-497 North Third Street, Philadelphia, Pa., describes and pictures the Schoop process "Meta Layer," which is manufactured by the company. The construction and operation of this device for coating metals have been improved so as to greatly increase its efficiency and also to enlarge its field of application. Copies of the pamphlet will be mailed by the company to anyone on request. This process of coating metals was originally conceived for covering iron or steel with lead to protect the metal against rust, but it has been developed and perfected so that now any of the commercial metals, either in wire or dust form, may be readily applied to nearly all kinds of materials. Besides lead, the machine can apply zinc, aluminum, iron, tin, copper, bronze, brass, nickel or monel metal, etc. There are a number of pictures one of which shows the "Meta Layer" in action. Full descriptions with particulars are given.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Useful Specification Book.

The Barber Asphalt Company, Land Title Building, Philadelphia, Pa., has issued a specification book containing information concerning its Genasco Standard Trinidad built-up roofing, Economy Trinidad built-up roofing, Asphalt Mastic flooring, waterproofing, etc. The book is illustrated and the reading matter conveys a great deal of information that will be valuable to contractors and others.

A Comprehensive Bulletin of Equipment.

A recent bulletin of the Southern Iron & Equipment Co., of Atlanta, Ga., dealers in rebuilt railroad, logging, contractors' and industrial equipment, contains sundry illustrations of locomotives and cars which they have on hand. Their stock includes both freight and passenger equipment, some standard gauge and some narrow gauge. The company also deals in steam shovels, cranes, etc., for contractors' and railroad use.

Improved Belt Construction.

A little folder issued by the Graton & Knight Manufacturing Company of Worcester, Mass., explains a new method of leather-belting construction as perfected by that company. The advantages of the new method are clearly pointed out and should be of especial interest to all users of belting. This new "tight-line construction," it is claimed, enables a belt even at high speed to easily and naturally conform to the shape of the pulleys so that the edges as well as the center of the belting cling tightly to them. Moreover, strain is equalized.

Road Building Machinery Book.

Road building and contractors' machinery manufactured by the Oberlin Machinery Company, Oberlin, Ohio, are illustrated and described in a small pamphlet issued by that corporation. A complete line of road graders and drags is manufactured, the former ranging in weight from 1150 to 4000 pounds and a detailed description of each is given so that customers may read all about them and thus make an accurate selection for their particular work. The road drags are made in two and three blade sizes and they are similarly described and pictured.

An Artistic and Superior Catalogue.

A large and complete catalogue, finely printed and copiously illustrated, has been issued by the Vonnegut Hardware Co., manufacturers, Indianapolis, Indiana, concerning the Von Duprin self-releasing fire exit latches. This is an unusually excellent trade publication. The first picture in it represents in rich colors the closed doors at an exit in a theater equipped with these safety devices and surrounded by their customary hangings and ornamentation. The reader understands immediately how the self-releasing latches are operated. This latch equipment combines in a unit the usual locking devices, the door lock and the top and bottom latches. The usual hardware trim is applied on the outside of the door. Inside, about waist high, is a solid bar stretching across the door but standing away from it. Any pressure applied to any part of the bar instantly and simultaneously releases lock and latches and permits the door to open. A child can open it. Thus, if a rush occurs in case of fire a mere pressure against the bar opens the door. Besides illustrating the various types of this safety device as applied to different kinds of doors the catalogue also contains pictures of a number of buildings which have been equipped with it.

Heating in Industrial Buildings.

The utilization of heat in industrial buildings is often accomplished only with a great deal of preventable waste. This is the field covered by a new booklet entitled "Improved Heating For Industrial Buildings At Minimum Cost" just issued by the Dwyer Equipment Company, Chicago. In addition to describing the essential principles of good practice in industrial heating, a large number of installations of the Twinfan unit heaters are shown.

Turbo-Generator Bulletin.

Bulletin No. 31 of the Ridgway Dynamo & Engine Company, of Ridgway, Pa., describes turbo-generator units as now built by the company. The bulletin is copiously illustrated with reproductions of photographs and line drawings showing the various features of high pressure, low pressure, mixed pressure and extraction type turbines. Considerable space is devoted to the company's turbine governor which is said to be extremely simple and effective. The manufacturers can furnish these machines in capacities from 300 KW to 5000 KW. Copies of the bulletin can be obtained on request from the main office or from any of the numerous branches.

A Fine and Complete Catalogue.

Catalog 37 of the J. H. Wilson Corporation, 11 East 36th street, New York, a superior publication, presents in convenient form descriptions and pictures of the Wilson section fold partitions, rolling partitions and hygienic school wardrobes that will be informative and useful to architects, owners, contractors and building committees. These were the first products introduced by James G. Wilson, founder of the business nearly fifty years ago; his object was to meet, through products of originality, high quality and adaptability, important requirements of modern churches, schools and other buildings of a public nature. The book is beautifully illustrated and each picture is accompanied by an appropriate description and sometimes by a diagram showing floor arrangement, etc.

A Large and Improved Coal Directory.

Mac's Directory of Coal Sales and Operating Companies, for 1924, has been issued by the publishers, the Coal Information Bureau, Union Trust Building, Pittsburgh, Pennsylvania, Walter E. Baker, business manager. The new arrangement in this year's directory establishes a record of efficiency for this publication. Most of the information presented was obtained by personal research and is most authoritative. The rearrangement of Section IV, which has been made alphabetical according to states and counties, and which gives the names of the operators in each county, is quite an advantage as compared with the edition of last year. Anyone familiar with coal and who desires to buy low volatile coal in Pennsylvania, knows there are but two counties to refer to, viz., Somerset and Clearfield. In the case of West Virginia this new arrangement accurately separates the low and high volatile coals, and in the case of Kentucky it separates the eastern, the central, and the western coals while in Illinois there are the northern, the central and the southern divisions. It will be observed that the names of the railroads by which coal is shipped in each county are also assembled. A key to the letters referring to the preparation of coal is at the bottom of each page. Altogether the book, which consists of 224 large and well printed pages, will be widely appreciated by the coal trade and also by everyone in any degree interested in coal.

Cross Drum Boiler Bulletin.

Heine cross drum boilers of the M-type, horizontally baffled and of the MC-type cross baffled, are discussed and pictured in Bulletin No. 53 of the Heine Boiler Company, St. Louis, Missouri. This publication is artistically and instructively attractive. It gives full particulars about these superior boilers telling of their general design, details of their construction, how the water circulates through them, the furnace arrangement, etc. Information is also given about how they may be cleaned. The illustrations, some of which represent cross sections of the boilers, are all very fine.

Book on Line of Pipe Fittings.

In a 36-page two-color publication entitled "Westinghouse Fittings for Pipe Structures," the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., has recently announced a new and complete line of interchangeable pipe fittings for structural work. The publication, known as Circular 1676, describes these fittings and gives their application to such work as the direction of outdoor substations, switching equipment, switchboard frames, racks, railings, fences, etc. It contains an unusually large number of photographic illustrations.

Big Cooling Fans in Factories.

"Have you a miniature inferno in your plant?" asks the American Blower Company of Detroit, Mich., on the cover page of a large folder which tells about their "Man-cooling fans" for giving relief from terrific heat. One of these fans resembles a desk fan but it is of giant dimensions. It weighs several hundred pounds and is run by a motor of four horsepower. The current of air which it creates is felt over a wide area and it can be placed so that it will supply a breeze in any direction. The statement is made that industrial plants have found their labor turnover reduced to a minimum after the introduction of these fans to make working conditions more agreeable to their employees.

A Comprehensive Cement Booklet.

An "Editors' Ready Reference Book on the Cement Industry and Concrete" has been published by the Portland Cement Association, 111 West Washington street, Chicago. This booklet has been prepared to furnish editors with a short, complete history of the cement industry accompanied by facts and figures concerning the important uses of concrete. It also contains ready reference tables on road mileages, highway maintenance costs, cement production and use, and divers other matters for newspaper use. The booklet is commemorative of the one hundredth anniversary of the invention of Portland cement. It is illustrated.

Fine Electric Drill Catalogue.

"Thor Electric Drill Catalogue No. 14" is a fine new publication issued by the Independent Pneumatic Tool Company of Chicago, New York and London. It is illustrated throughout its twenty-five pages with superior half tone reproductions of photographs of the company's products, several of the pictures showing electric drills at work on different jobs. Besides drills the company also manufactures reamers, grinders, etc. Full particulars about these machines are given. There is also a list of foreign houses which handle the company's products.

(Continued on page 124.)

Building Transmission Lines in Western Tennessee.

Regarding its plans for electrifying western Tennessee, the Kentucky-Tennessee Light & Power Co., Inc., Bowling Green, Ky., advises the MANUFACTURERS RECORD that it is completing details on this project and expects to have its plans approved by the board in the near future.

The company has completed and placed in service a 3750 KVA addition to its Hopkinsville plant, the installation including a new oiler with chain-gate stoker, ash removing and unloading equipment and new concrete spray pond. It is constructing at this time 60 miles of 66 KV transmission line from Hopkinsville to Bowling Green. This is of the suspension type and construction is in charge of B. E. Anderson of the Bowling Green office.

Under the direction of E. M. Allen, superintendent at Clarksville, Tenn., it is installing one and one-fourth miles of gas main at Clarksville, and is rebuilding an 11,000-volt transmission line from Hopkinsville to Guthrie, the latter work being under the direction of A. Wettstein, superintendent, Hopkinsville.

Completes New 3-Mile Channel in Chesapeake Bay.

A new channel in lower Chesapeake Bay, opposite York Spit, Va., has been completed by the office of the district engineer at Baltimore, F. C. Harrington, Major, Corps of Engineers. This is an approach channel to the port of Baltimore and is located about two miles westward of the old channel. It is 35 feet deep at mean low water, 1000 feet wide and three miles long. Buoys marking the new channel have been established by the Lighthouse Department and buoys on the old channel will be removed July 1.

\$300,000 Building for Christian Hospital, St. Louis.

Grading has been completed and it is expected that general contract will soon be awarded for the erection of a \$300,000 building at St. Louis for Christian Hospital, Inc. Plans for the building have been prepared by Hoener, Baum & Froese of St. Louis.

The structure will be 134 by 104 feet, 4 stories, of reinforced concrete, brick and stone, with concrete foundations, terrazzo, tile and marble floors, and composition built-up roof. Contract for grading was awarded several months ago to the Fruin-Colnon Contracting Co., St. Louis.

A Fine Book of Pictures of Baltimore Harbor, Etc.

Sixty-seven large photographic reproductions of aeroplane views of Baltimore harbor and the approaches thereto appear in a fine book issued by Baltimore City. These views were taken, it is stated, by the United States Navy and were reproduced by the Harbor Board of Baltimore, composed of Howard W. Jackson, Mayor; Bancroft Hill, president and Harbor Engineer; Wm. D. Sanner, secretary; J. Alan Fledderman, W. A. Blake and J. George Lamp, with F. W. McKinney and Geo. A. M. Schaefer, assistant harbor engineers. The title page says:

"This set of pictures was taken by the United States Navy, Bureau of Aeronautics, Rear Admiral W. A. Moffett, commanding; commencing on the west side of Chesapeake Bay north of the mouth of the Severn River, and continuing up the west side of the bay, Patapsco River and Baltimore harbor, passing around the upper basin and down the east side of the harbor and river to North Point. In obtaining permission from the United States Navy to use these pictures, it was expressly agreed that they would not be used in any form except as presented herewith, and that they would not be put to any private or commercial use whatsoever. Reproduction in any form is positively prohibited."

An index map, showing the location of each picture, accompanies the book, which is a remarkably fine, instructive and interesting presentation of a considerable part of the upper section of Chesapeake Bay and the Patapsco River as it looks when viewed from an aeroplane. The pictures are of high excellence, and, being printed on heavy, calendered paper, display a remarkable amount of detail.

Georgia to Build 54 Miles Road and Bridges.

East Point, Ga.—Proposals will be received by the Georgia State Highway Department until July 2 for the construction of 54 miles of road and a number of bridges in various sections of the state. The largest project calls for 47.3 miles of graded road and four timber bridges on the Savannah-Darien-Brunswick road in Bryan, Liberty and McIntosh counties.

Other work includes 3.19 miles of asphalt pavement in Cobb county, 3.029 miles of clay gravel in Rabun county, one section of top soil road in Stephens county of .747 mile and one in Habersham county of .319 mile.

A concrete and steel bridge will be built over Curry Creek in Jackson county, and one over the Chattooga River in Walker county.



NEW HOSPITAL BUILDING TO BE ERECTED AT ST. LOUIS.

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A Large and Original Brochure.

The Atlas Portland Cement Company, 25 Broadway, New York, have issued a large and fine advertising brochure of which they have mailed copies to about 15,000 dealers throughout the United States. This publication is original and unusual in its character and withal very attractive and full of information. The first cover page says that Atlas production economy is through the rotary kiln, distribution economy through the building-material dealer and sale-economy through advertising. Within there is a mass of most interesting information about the manner in which the product is put before the public, including several pages showing the cover pages of different publications in which the company advertises, including the MANUFACTURERS RECORD, these reproductions being in the colors of the originals. Every bit of the work shown in this novel brochure is exceedingly good and it immediately commands the attention and interest of the reader.

Two Superior Tractor Bulletins.

The Cletrac industrial tractor manufactured by the Cleveland Tractor Company of Cleveland, Ohio, is comprehensively described in a large illustrated bulletin. They are used and have been used for years by contractors as well as by township, county and state highway departments for pulling plows, scrapers, etc., on road construction work. It also pulls mowing machines, is employed for golf course construction, and in numerous other capacities it displays its valuable qualities. Lumbermen use it and it is extensively engaged in work at various kinds of industrial plants, taking the places of teams wherever teams were formerly employed. In winter it is often used to operate snow plows in cleaning blocked roads. Another bulletin is devoted especially to the capacity of this tractor for different work on farms. There is apparently no end to its adaptability.

Business Removal.

The Charles T. Topping Machinery Co. have removed their headquarters from Pittsburgh, Pa., to Dayton, Ohio, where their address is P. O. Box 842. Their offices will be located at the plant of the Smith Gas Engineering Co., at Moraine City, in a suburb of Dayton, and there the Topping Pony Ditcher, a lightweight traction trench excavator, powered by a Fordson tractor, is being manufactured on a standardized production basis. The Topping Company has for several years been located in the House Building at Pittsburgh.

A New Industrial Sales Company.

The Southern Industrial Sales Company, 59 Walnut St., Asheville, North Carolina, has been recently organized with T. P. Young, president; L. Roy Young, secretary; and William O'Neill, Jr., general manager. They are sales engineers and manufacturers agents for mechanical apparatus, industrial paints, transmission belting, water-proofing, metal buildings, power specialties, industrial equipment, textile chemicals, brick and hollow tile, etc. The management is under the active control of Mr. O'Neill, who was until recently a partner in the Southeastern Industrial Sales Agency of High Point, N. C.

Pacific Coast Offices Established.

The DeLaval Steam Turbine Company of Trenton, N. J., has formed a Pacific Coast sales organization covering California, Oregon and Washington and parts of states adjacent thereto, under the direction of William Pullen, with offices as follows: Los Angeles, 312 Union Oil Building, in charge of Ivan E. Goodner; San Francisco, 531 Rialto Building, in charge of William Pullen, assisted by Eck Baughn and Chas. P. Markley; Seattle, 1306-7 L. C. Smith Building, in charge of James Q. Osborne, assisted by F. A. Hurlbut. All of these gentlemen, it is stated, are well qualified to give reliable information and competent service.

Appointment—Installations.

The Baker Ice Machine Company, of Omaha, Neb., through W. G. Eager, district manager at Valdosta, Ga., has announced the appointment of the Dade Refrigerating & Engineering Co., of Miami, Fla., Walter Christiansen, president, as representatives in that territory. The Baker Company recently established a district office at Valdosta with a full stock of compressor supplies and fittings and having two erecting men from Omaha who travel from Valdosta for the erection of plants adjacent thereto. The company has recently made installations of refrigerating machinery at Valdosta, Ga.; Brunswick, Ga.; Jacksonville, Fla., and Miami, Fla., this including three installations at the latter place.

(Continued on page 126.)

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

A New and Very Powerful Stump Puller.

Dorsey Bros., manufacturers, Elba, Ala., give a complete illustrated description of the Dorsey stump puller in their new catalogue. This device is a valuable asset to the country, for it will aid materially to develop economically a large acreage of farm lands which now need reclaiming. This machine, which the manufacturers describe as "an all-steel product," is pictured in detail so that readers may immediately comprehend its features, but in addition to these illustrations there are other photographic reproductions showing the stump puller at work. When one of these machines was employed by the Louisville & Nashville Railroad Company unusual success was achieved in pulling monster hardwood stumps located in very difficult ground and offering unusual resistance. The trees had been felled only eight or ten inches from the surface of the ground and the resistance required a power of about 225 tons. It is stated that with a desirable anchorage it is possible to pull any tree without regard to its size. The catalogue also contains full descriptions, with pictures, of the skidding machinery manufactured by the firm.

Several New Officers Elected.

J. C. Merwin, works manager of the Chain Belt Company, Milwaukee, Wisconsin, was elected second vice-president at the recent annual meeting of the company. Mr. Merwin is a graduate of Sheffield Scientific School, Yale University (1910), and has been associated with the company since 1917. Other new officers elected were: Brinton Welser as secretary, and C. E. Stone as assistant secretary. Mr. Welser is a graduate of the University of Wisconsin (1912) and Mr. Stone is a graduate of the University of Michigan (1910). Both have been with the company for several years.

Office Opened in Atlanta.

The Northwest Engineering Co., 28 East Jackson Boulevard, Chicago, manufacturers of power shovels, draglines and cranes, has opened a new office at 101 Marietta Avenue, Atlanta, Georgia. This office will be in charge of M. B. Ogden, who has been closely connected with the contracting and engineering field for some time.

Encouraging Business Outlook.

The authorized capital stock of the Westinghouse Electric and Manufacturing Company was increased from \$125,000,000 par value to \$200,000,000 par value at a meeting of the stockholders held June 11 in the main office of the Company at East Pittsburgh, Pa. At the conclusion of the meeting, E. M. Herr, president of the company, said: "The condition of business in our industry is quite satisfactory, especially considering the tendency of business in general to slow up at the present time. While our business also is somewhat less than for the corresponding period a year ago, the decrease has not been of sufficient volume to materially affect our operations, and our commercial people believe that it will improve in the fall."

Important Manufacturing Change.

The syndicate of firms owning the Millholland Machine Company of Indianapolis, Ind., having passed through a receivership, the Millholland Company was recently forced to liquidate. The plant buildings and equipment were sold and will be devoted to other lines of industry. The Gisholt Machine Company purchased the business, including the stock of finished machines, the parts in process, good will, trade-marks, patents, patterns, drawings, jigs, tools, fixtures, etc., and will continue at Madison, Wis., the manufacture and sale of Millholland machines, which have gained an enviable reputation throughout the manufacturing world.

Interchangeable Pipe Fittings.

A complete line of structural pipe fittings, designed for use with common wrought iron or steel pipe in the erection of outdoor or indoor electrical switching equipment, has been placed on the market by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. While they are designed primarily for electrical installations, the new fittings are equally applicable for the construction of racks, railings and bench or table frames. Electrical sign structures, playground apparatus, dairy stable stanchions, tennis court and golf course barriers and poultry yard fences are only a few of the great variety of uses of which structural pipe with these fittings can be put.

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City and State.....

A New Road Roller.

The Gallon Iron Works and Manufacturing Company of Gallon, Ohio, have just placed on the market the "Gallon Junior" roller, which is of the three-wheel macadam type made in three, four and five ton sizes. It is further stated that the engineering features of this roller are unique and will appeal strongly to prospective purchasers. The power unit is a Fordson tractor from which the front truck and rear wheels have been removed and it is carried on a full-length channel frame, shaped to receive the king-post socket casting at the front end, and extending to the rear of the unit so as to permit a scarifier to be properly attached. In placing the power unit in the frame the three-point suspension idea has been carried out to give the greatest flexibility without subjecting the unit to unusual strain. A full-length rear axle carries the weight through brackets attached to the main frame. A train of steel gears permits use of all the speeds of the power unit and increases power, it is stated, 33 1/3 per cent. A planer blade adjustable for light or heavy cuts may be attached in front of the front roll and its angle can be changed to throw material to either side. The roller can be had in either size, plain or with scarifier or planer, or with both. The company also makes motor and steam three-wheel macadam and tandem-road rollers in all sizes.

Improved Bending Rolls.

The Buffalo Forge Co., Buffalo, N. Y., has introduced several major improvements in its series of bending rolls Nos. 1/2, 1 and 2. A principal feature is the newly designed train of rolls, made of specially prepared high quality steel, which allow the bending of angles singly, either with leg inside or outside. With the older design it was possible to bend angles with the leg inside only by placing the angles in pairs with the backs bolted together and with the use of flat rolls. Easier and more even adjustment of the rolls in bending is insured by replacement of the springs supporting the top roll and bearing with a counterbalanced lever. A new spacer arrangement insures an easy and quick adjustment of the space in the rolls. The same rolls are also used for narrow flats. The smallest machine is not reversible but Nos. 1 and 2 have two reversing clutch pulleys. All gears are above floor level. Rolls can also be furnished for bending annealed copper tubing without the use of resin.

Factory Capacity Being Doubled.

The Barrett-Cravens Company, Chicago, Ill., is doubling its present capacity by building four additional stories. When completed, it is claimed, its factory "will be the largest plant in the world devoted to the manufacture

of lift trucks and portable elevators." This additional space has been made necessary by increased business, due chiefly to the new Model F lift truck brought out by the company at the first of the year and also to its new-design portable elevator. The company reports that it has not felt any business slump; it is as busy as ever.

Unique Air Compressor Engine.

Mounting the air-compressor cylinder and the power cylinder on the same crank case is the out-of-the-ordinary feature of the Charter-Mietz air-compressor engine, manufactured by the Charter Gas Engine Company of Sterling, Ill. The manufacturers point out that the advantages of this construction are great. Transmission losses, they say, are eliminated. The amount of floor space needed is reduced. Weight is decreased, permitting easier moving. It is a simpler, stronger, more reliable and more durable unit, they say, than a two-piece set. The valves, which are giving remarkable results, are of the disc type, are absolutely noiseless and are easily removed for inspection. Clearance is at a minimum. This engine is extensively used by the U. S. Light-house Service. The engine is built in a number of different sizes for pressures up to two hundred pounds per square inch. It operates on crude or any low-priced oils.

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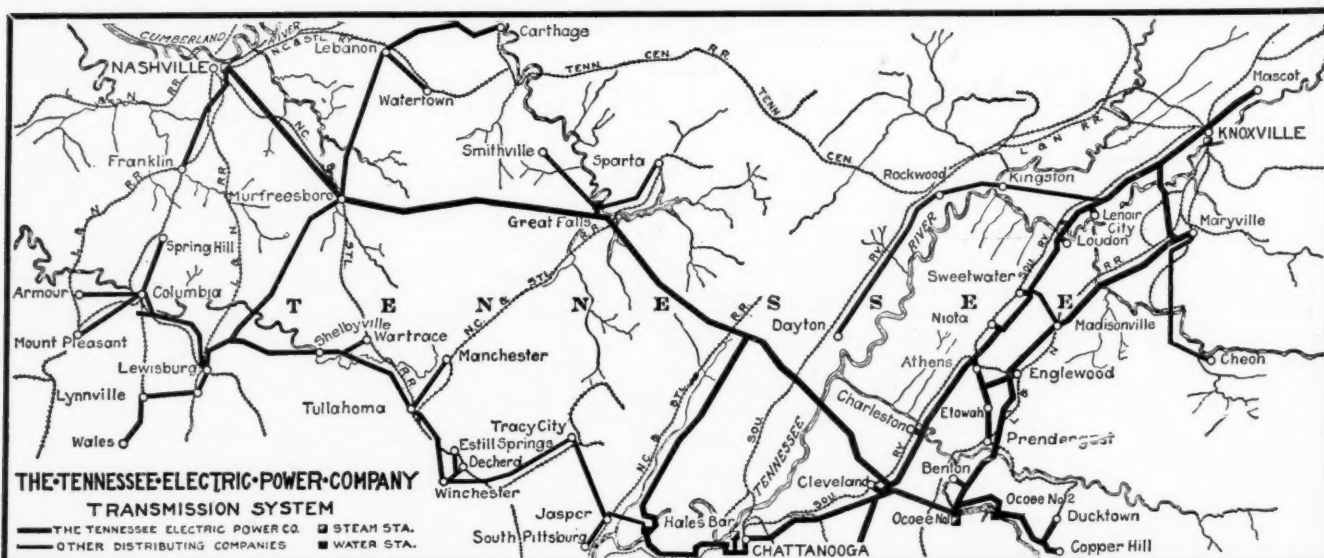
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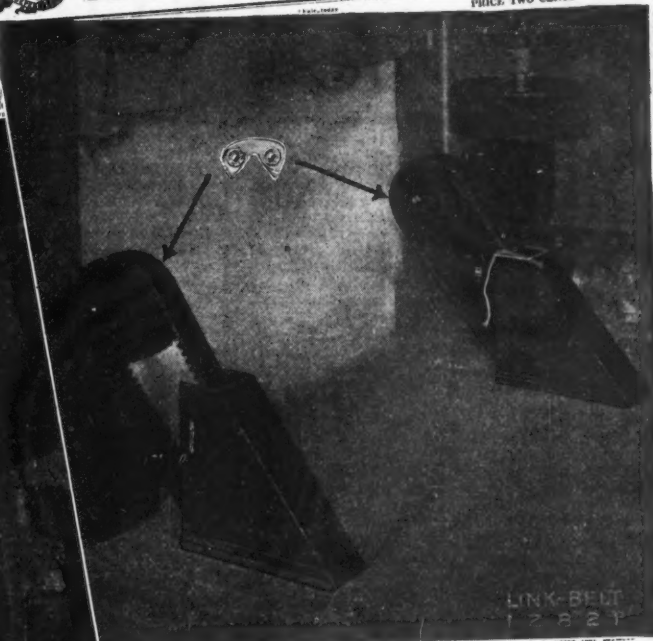
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BOND ISSUES

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Bids close August 5, 1924.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 A. M. August 5, 1924, and then opened, for furnishing and erecting a bascule bridge across the navigation lock of Wilson Dam. Further information on application.

Bids close July 10, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 17, 1924—Sealed Proposals will be opened in this office at 3 P. M., July 10, 1924, for a New Coal Room and changes in heating system in the U. S. Post Office at Martinsburg, W. Va. Drawing and specifications may be obtained from this office or at the office of the Custodian, Martinsburg, West Virginia, in the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 9, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., June 11, 1924.—Sealed proposals will be opened in this office at 3 P. M. July 9, 1924, for an ice-making and refrigerating plant at the U. S. Marine Hospital, Savannah, Ga. Specifications may be obtained at this office in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtaining a set of the plans and specifications from any source whatever and submits a bid shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

Bids close July 21, 1924.

Proposals for Diesel Engine Driven Generator Equipment for Stand-by Generator Stations.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 o'clock a. m., July 21, 1924, at which time they will be opened in public, for furnishing the above-mentioned equipment. Blanks and information relative to this Circular (1617) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 611 Gravier Street, New Orleans, La.; and Fort Mason, San Francisco, Cal.; also from the United States Engineer offices in the principal cities throughout the United States.

A. L. FLINT, General Purchasing Officer.

Bids close July 14, 1924.

\$23,000 6% Gold Bonds

Fort Meade, Fla.

Sealed bids will be received by the Bond Trustees of Fort Meade, Florida, until 7:30 o'clock P. M. July 14, 1924, for Street Paving Bonds.

Said bonds are dated June 2, 1924, and are of the denomination of \$1000 each and are due and payable June 1, 1954.

The principal and semi-annual interest at six per centum, payable June 1 and December 1, at American Exchange National Bank, New York City.

Approving opinion of John C. Thomson, Esq., of New York City, will be furnished the successful bidder.

The said Bond Trustees shall have the right to reject any and all bids. All bids must be accompanied by certified check of \$500 as evidence of good faith.

Address all bids to the Board of Bond Trustees, care of Vernon Clyatt, Secretary Fort Meade, Florida.

VERNON CLYATT, Secretary.
PATTERSON & WILSON, City Attorneys.
Fort Meade, Florida.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE 4 P. M., Monday.

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THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close July 17, 1924.

\$700,000 5½% Road Bonds

Palatka, Fla.

Sealed proposals will be received by the Board of Bond Trustees for Special Road and Bridge District Number Six, of Putnam County, Florida, on July 17, 1924, 12:00 o'clock noon, for the purchase of \$700,000 of Coupon Road Bonds of Special Road and Bridge District Number Six, of Putnam County, Florida. Bonds are in denomination of \$1,000.00 each, dated July 1, 1923, and maturing July 1, 1953. Interest Five and one-half per cent (5½%) payable semi-annually at Hanover National Bank, New York City. Privilege of registration as to principal. Bonds cannot sell for less than par with accrued interest to delivery, and right is reserved to reject all bids. Proposal must be accompanied by certified check for Two per cent (2%) of amount of bonds bid for. Approving opinion of Mr. John C. Thompson, of New York City, together with certificate of Judicial Validation, will be furnished successful bidders.

For further information, address J. W. Hart, Secretary, Merryday Building, Palatka, Florida, who will furnish upon request formal Notice of Sale, required form for proposal and complete prospectus.

Bids close July 17, 1924.

\$500,000 5½% Bridge Bonds

Palatka, Fla.

Sealed proposals will be received by the Board of Bond Trustees of Special Road and Bridge District Number Seven, Putnam County, Florida, on July 17, 1924, at 12:00 o'clock noon, for the purchase of \$500,000.00 Coupon Bridge Bonds of Putnam County, Florida, created Special Road and Bridge District Number Seven, of said County. Bonds to be in denomination of \$1000.00 each, dated July 1, 1924, and maturing serially, each year, from July 1, 1927, to July 1, 1953, inclusive. Certain of the bonds are callable at ten years, certain at twelve years and certain at fifteen years, at the option of the Board. Interest to be at Five and one-half per cent (5½%), payable semi-annually at Equitable Trust Company, New York City. Privilege of registration as to principal. Bonds cannot sell for less than par with accrued interest to delivery, and right is reserved to reject all bids. Proposal must be accompanied by certified check for two per cent (2%) of amount of bonds bid for. Approving opinion of Mr. John C. Thompson, of New York City, together with certificate of Judicial Validation, will be furnished successful bidders.

For further information address J. W. Hart, Secretary, Merryday Building, Palatka, Florida, who will furnish upon request formal Notice of Sale, required form for proposal and complete prospectus.

Bids close July 7, 1924.

Steel Draw-Bridge, Piers, Etc.

Key West, Fla.

Proposals will be received by the undersigned until 8 P. M. July 7, 1924, for the furnishing of the necessary material complete and the construction thereof for a steel drawbridge, piers, abutments, operating machinery, fender system and all appurtenances thereto at the northerly end of Key Largo, Florida, over what is known as Barnes Sound, and between Key Largo and the mainland of Florida.

Plans and specifications may be procured or seen at the office of the Clerk of the Circuit Court of Monroe County, Key West, Florida, together with all general information.

All proposals will be publicly opened with the usual rights reserved.

BOARD OF COUNTY COMMISSIONERS
OF MONROE COUNTY, FLA.
J. OTTO KIRCHHEIMER.

Chairman.

Bids close July 8, 1924.

Highway Construction

STATE OF MARYLAND.
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.

Baltimore, Md.

Sealed proposals for building nine sections of State Highway as follows:

Montgomery County—Cont. M-52. One section of State highway from Colesville toward Ashton for a distance of 1.0 mile. (Concrete.)

Montgomery County—Cont. 169-S. One section of State highway from Kensington to Chevy Chase Lake, a distance of 2.03 miles. (Concrete shoulders.)

Prince George's County—Cont. P-53. One section of State highway from Bladensburg to East Riverdale, a distance of 2.0 miles. (Concrete.)

Howard County—Cont. Ho-48. One section of State highway from end of Cont. Ho-42 to Jonestown, a distance of 1.3 miles. (Concrete.)

Howard County—Cont. Ho-25. One section of State highway between West Elridge and Millers Corner for a distance of 1.48 miles. (Concrete.)

Baltimore County—Cont. B-12-C. One section of State highway through Catonsville for a distance of 0.46 mile. (Concrete.)

Queen Anne's County—Cont. Q-30. One section of State highway from Centerville to Centerville Landing, a distance of 0.7 mile. (Concrete.)

Cecil County—Cont. Ce-32. One section of State highway between Calvert and Fair Hill for a distance of 1.0 mile. (Concrete.)

Calvert County—Cont. C-17. One section of State highway from Huntingtown toward Plum Point for a distance of 1.5 miles. (Gravel.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Md., until 12 M. on the 8th day of July, 1924, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred (\$500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.
By order of the State Roads Commission this 19th day of June, 1924.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close July 7, 1924.

Highway Construction

Key West, Fla.
Proposals will be received by the undersigned until 8 P. M. July 7, 1924, for the construction of a highway sixteen feet in width, consisting of stone surface, oiled, with a suitable material for subgrade, from a point of intersection of the present County Road on Key Largo, Florida, and the north quarter section line of the northwest quarter of Section 35, T 59, R 40 E of the meridian of Tallahassee, four and forty-eight hundredths miles in length, with the necessary trestles, to a point midway the water opening between Barnes Point and a point near Little Card Sound on the mainland of Florida, and also

From the eastern end of Stock Island to what is known as Traverse Station No. 68 on Saddle Bunches, together with the necessary trestles embraced within these terminals.

Plans and specifications may be procured or seen at the office of the Clerk of the Circuit Court of Monroe County, Key West, Florida, together with general information. Proposals will be publicly opened with the usual rights reserved.

BOARD OF COUNTY COMMISSIONERS
OF MONROE COUNTY, FLA.
J. OTTO KIRCHHEIMER,
Chairman.

Bids close July 8, 1924.

Sidewalk Construction

Lakeland, Fla.
Sealed proposals will be received by the City of Lakeland, Florida, until 7:30 P. M. Tuesday, July 8, 1924 for paving sidewalks with widths of 5 and 6 feet and lengths totalling about 130,000 Lin. Feet. The type of sidewalk to be bid upon is Portland cement concrete on sand foundation, and includes grading and necessary connections with existing work.

Blank forms of proposal and specifications will be furnished prospective bidders. Plans for the same are on file in the offices of the City Manager and City Engineer of said city, where they may be examined. Certified check for \$4000 is required with each bid and bond for 50% of the contract price will be required of the successful bidder, such bond to be a bond with reputable and responsible Surety Company as Surety written through their resident Agent and who has been their such resident Agent in the City of Lakeland for six months.

The city reserves the right to reject any and all bids.

The city reserves the right to increase or decrease the amount of work included in these specifications without affecting in any way the contract prices and without affecting the specifications or contract in any other respect.

The city reserves the right to group the work in units as set forth in Instructions to Bidders, and to let separate contracts for any one or more units.

The city reserves the right to purchase concrete materials and furnish them to the contractor to be placed by him under the specifications as prices bid by him.

ANTON SCHNEIDER,
City Manager.
J. L. DAVIS,
City Clerk and Auditor.
CHARLES CARROLL BROWN
City Engineer.

Bids close July 8, 1924.

Paving and Sewers

Denmark, S. C.
The Mayor and Council of the Town of Denmark, S. C., will receive sealed bids up to 2.00 P. M. July 8, 1924, in the office of the Town Clerk and Treasurer for furnishing all material and labor for the following improvements.

Street and Sidewalk Pavement, the estimated cost of which is \$30,000.00.

Sanitary Sewer System, the estimated cost of which is \$30,000.00.

A certified check or a satisfactory bid bond for \$1000.00 must accompany each proposal.

The Council reserves the right to reject any or all bids.

Plans and specifications are on file in the office of the Town Clerk and Treasurer. Copies may be obtained from the Engineers upon deposit of \$10.00, which deposit will be returned if a bona fide bid is submitted and the plans and specifications returned within 10 days from date of receiving bids.

J. E. STEDMAN, Mayor.
J. B. GILLIAM, Clerk and Treas.
RYAN ENGINEERING CO., Engineers,
Arcade Building, Columbia, S. C.

Bids close June 30, 1924.

Street Paving

Madison, Fla.

Sealed proposals on blank forms furnished by the town and addressed to the "Mayor and Council, Madison, Florida," will be received until 2 o'clock P. M. June 30, 1924, at Madison, Florida, for furnishing all material, labor and equipment, and doing the following work:

Approximately 65,000 square yards of street paving, with all necessary drainage, curb and gutter and curbs as specified.

Each bid must be accompanied by a certified check or satisfactory bidder's bond, made payable to the Mayor, for not less than five thousand dollars.

Plans and specifications can be seen at the office of the Town Clerk and the offices of the Engineers, and specifications can be obtained from the Engineers upon the payment of two dollars.

Full set of plans will be furnished by the Engineers upon the payment of ten dollars to cover the cost of printing, etc.

The right is reserved to reject any or all bids.

E. J. HARRIS, Mayor.
S. P. GRIFFIN, Clerk.
H. S. JAUDON ENGINEERING CO.,
Engineers, Elberton, Georgia.

Bids close July 14, 1924.

Paving and Sewers

Gainesville, Fla.

Sealed proposals will be received by the City Council of the City of Gainesville, Florida, until 8.00 P. M. July 14th, 1924, for furnishing material, equipment and labor for the construction of approximately

20,000 Sq. Yards of Paving.
10,700 Lin. Ft. of Concrete Curb.
10,700 Lin. Ft. of Concrete Curb and Gutter.

20,000 Lin. Ft. of Storm Sewer—12 to 18 inches.

Bids will be received on Sheet Asphalt, Asphaltic Concrete, Vitrified Brick and similar paving for surface.

Certified Check or Bidder's Bond through a Gainesville Agency for \$3000 to accompany each bid.

Plans and specifications may be seen at the office of the City Manager, and specifications may be obtained from the above office upon payment of \$3.00 to cover the cost of reproduction.

The right is reserved to reject any and all bids.

G. H. CAIRNS,
City Manager.
E. V. CAMP & ASSOCIATES,
Consulting, Supervising
and Testing Engineers.
Atlanta, Ga.—Jacksonville, Fla.

Bids close July 9, 1924.

Paving, Storm Drains, Water Mains, etc.

Seabreeze, Fla.

Sealed proposals will be received by the Town Council of the Town of Seabreeze, Florida, until 7.30 o'clock P. M. on the ninth of July, 1924, at the Town Hall for the furnishing of materials and construction of 63,100 square yards of brick, concrete or bituminous pavements with the necessary curb, gutter and appurtenances: approximately 18,000 lin. feet of storm drains, 24 inch to ten inch, with accessories: approximately 4000 lin. ft. 6-inch water mains, with specials and accessories: one 282,000-gallon steel water tank and foundations, all complete and in accordance with plans and specifications at the office of the Engineer and the Town Clerk.

Bids will be received on the whole or any section of the work.

Plans and specifications may be examined at the office of the Clerk at the Town Hall, Seabreeze, Florida, or at the office of the Engineer in the Lutz Building, New Smyrna, Florida, or for the sum of twenty-five dollars copies of the plans may be obtained by applying at the same places.

Each bidder must accompany bid with a certified check or bidder's bond for an amount not less than five (5) per cent of the amount bid, drawn to the order of the Town of Seabreeze, Florida.

The right is reserved to reject any and all bids in whole or in part.

P. D. GOLD, Mayor.
HARRY GILMORE, Clerk.
N. A. HOTARD, Engineer.

Bids close July 8, 1924.

Street Improvement and Storm Sewers

Jackson, Tenn.

Sealed proposals will be received by the undersigned until 10 o'clock A. M. on Tuesday, July 8th, 1924, for the improvement of certain streets in the City of Jackson, Tenn. in accordance with plans, profiles, and specifications prepared and on file in the office of the City Commissioners, approximating 102,600 square yards of pavement, 42,800 lineal feet of concrete curb and gutter, 3500 lineal feet of storm sewers with necessary inlets and manholes. Bids are requested on sheet asphalt on concrete base, 3 inch vertical fiber brick, on concrete base, 6 inch one course concrete pavement. Bids on other types may be submitted also. Each bid must be accompanied by a certified check or bidder's bond in the amount of ten per cent of the cost of the entire work, computed on the basis of the bids submitted. The right is reserved to reject any or all bids. At 10 o'clock A. M. on said date all bids will be opened and publicly read. A deposit of \$5.00 is required for each set of specifications, returnable when bid is submitted, or upon return of specifications.

C. E. GRIFFIN,
Com'r of Public Utilities.
E. R. DIKE,
City Engineer.

Bids close July 10, 1924.

Water Works Improvements

Sealed proposals will be received by the City of Oxford, N. C., until 8 P. M. July 10 for Water Works Improvements consisting of the following:

Furnishing materials (except the pipe and special castings), labor, equipment, etc., for trenching, laying and backfilling, approximately six and one-tenth (6.1) miles, more or less, of twelve (12) inch and approximately two thousand (2000) feet, more or less, of sixteen (16) inch water mains.

Furnishing all labor, materials, etc., for and constructing an auxiliary pumping station on Tar River, including the receipt of and installation of pumping and electrical equipment.

Furnishing and delivering pumping and electrical equipment for the Tar River auxiliary pumping station.

Proposals must be marked "PROPOSALS FOR WATER WORKS IMPROVEMENTS." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid, but in no case for less than two hundred and fifty dollars (\$250) as evidence of good faith.

Copies of the Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and the Board, appear for the best interest of the city.

THE BOARD OF COMMISSIONERS
OF OXFORD, N. C.

By T. G. STEM, Mayor.
WILLIAM C. OLSEN, Engineer,
Raleigh, N. C.

Bids close July 8, 1924.

Electric Light and Water Works Plant

Oak Grove, La.

We will receive bids on an Electric Light and Water Works Plant at Oak Grove, Louisiana, Tuesday, July 8, 1924, on or before 10 o'clock A. M.

Specifications and plans may be had of the Engineer on receipt of fifteen dollars (\$15) to insure their safe return.

The Board reserves the right to reject any and all bids.

D. L. MORGAN, Mayor.
L. LIPP, Clerk.
HENRY A. MENTZ, Consulting Engineer,
Magnolia, Mississippi.

Bids close July 2, 1924.

Court House

Irwinton, Ga.

A contract will be let by the County Commissioners of Wilkinson County at Irwinton, Ga., on the 2nd day of July, 1924, to the lowest bidder to build a new court house for Wilkinson County. Plans and specifications can be obtained at the Clerk's office of the Board of County Commissioners at Irwinton, Ga.

Bids close July 10, 1924.

Church Building

Seneca, S. C.
Sealed bids will be received by the Building Committee of the Seneca Baptist Church at the store of M. A. Wood & Co., Seneca, S. C., on or before twelve o'clock Thursday noon, July 10th, 1924, for the erection and completion of a Church Building on the lot of the Seneca Baptist Church at the corner of Fair Play and South Second Streets in Seneca, S. C.

Copies of drawings and specifications may be secured at M. A. Wood & Co.'s store on Main Street. A deposit of fifty dollars (\$50.00) for each set of plans and specifications taken from the office, which will be refunded upon the return of the same in good condition. All bids must be accompanied with a certified check of five hundred dollars (\$500.00). The Building Committee of the Seneca Baptist Church reserves the right to reject any or all bids.

**BUILDING COMMITTEE OF THE
SENECA BAPTIST CHURCH,
M. A. WOOD, Chairman.**
Address all communications to M. A. Wood, Chairman, Building Committee of the Seneca Baptist Church, Seneca, S. C.

Bids close July 2, 1924.

Gate Valves, Sluice Gates, Operating Stands, Etc.

DEPARTMENT OF PUBLIC IMPROVEMENTS.

SUB-DEPARTMENT OF HIGHWAYS ENGINEER.

Baltimore, Md., June 18, 1924.

Sealed bids or proposals, in duplicate, addressed to the Board of Awards in care of the City Register, for furnishing and delivering gate valves, sluice gates, operating stands, etc., to the Highways Engineer Department, in accordance with the specifications on file in the office of the Highways Engineer, City Hall, Baltimore, Md., will be received by the City Register at his office, City Hall, Baltimore, Md., until Wednesday, July 2, 1924, at 11 A. M., at which time they will be publicly opened by the Board of Awards and read. (Material Contract No. 45.)

Certified check of the bidder on a clearing-house bank, made payable to the Mayor and City Council in the amount of fifty dollars (\$50), is to accompany each bid.

Bond in the amount of the contract price will be required of the successful bidder. The Board of Awards reserves the right to reject any and all bids.

Specifications and proposal forms may be obtained upon application at the office of the Highways Engineer, Room 10, City Hall.

BERNARD L. CROZIER,
Highways Engineer.
STUART PURCELL,
Chief Engineer.

Approved:

HOWARD W. JACKSON,
President Board of Awards.
GEORGE E. KIEFFNER,
Assistant City Solicitor.

Bids close July 15, 1924.

Construction of Dam

Roanoke, Va.

Proposals for constructing a dam on Beaver Dam Creek, Bedford County, Virginia, will be received up to and including July 15, 1924.

Construction involves dam impounding 425 million gallons of water and handling of some 50,000 cubic yards of materials.

Plans and specifications will be open to inspection of prospective bidders on and after June 15, 1924, at the office of Roanoke Water Works Company, 20 Salem Avenue, S. E., Roanoke, Virginia.

Bids close July 1, 1924.

Motor Vehicle License Plates

SOUTH CAROLINA

STATE HIGHWAY DEPARTMENT.

Columbia, S. C.

Bids will be received until 12 o'clock noon Tuesday, July 1, 1924, at the office of the Secretary of the South Carolina State Highway Commission, 1626 Main Street, Columbia, for furnishing and delivering to the State of South Carolina its official motor vehicle license plates for the year 1925.

A minimum of 196,000 plates will be required, of which 190,200 plates shall be 5" high and 15 3/4" long, and shall have embossed thereon designating class letters 3 1/2" in height with stroke 1/2" in width, and numerals 3 1/16" in height with stroke 3/8" in width, followed by an embossed oval seal, which shall be 2 1/4" in height and 2 3/4" in length and shall have the letters "S C" indented therein, to be 1 1/4" in height with stroke 1/4" in width above the numerals "25", to be 1 1/16" in height with stroke 7/32" in width; and 2500 plates shall be 6 1/4" high and 15 3/4" long, and shall have embossed thereon a designating class letter 3 1/2" in height with stroke 1/2" in width, and numerals 3 1/16" in height with stroke 3/8" in width, followed by an embossed oval seal, which shall be 2 1/4" in height and 2 3/4" in length and shall have the letters "S C" indented therein, to be 1 1/4" in height with stroke 1/4" in width above the numerals "25", to be 1 1/16" in height with stroke 7/32" in width, with the word "Replacement" following across the lower portion of plates in letters 3/4" in height with stroke 3/16" in width; and 800 plates shall be 3 3/4" high and 8 1/2" long, and shall have embossed thereon designating class letters 2 1/2" in height with stroke 5/16" in width, and numerals 2 1/16" in height with stroke 9/32" in width, followed by an embossed oval seal, which shall be 1 7/16" in height and 1 1/16" in length and shall have the letters "S C" indented therein, to be 1 1/4" in height with stroke 5/32" in width above the numerals "25", to be 13/16" in height with stroke 1/4" in width; all such plates shall have Shamrock Green colored background, with white letters, numerals and embossed surfaces; and 2500 plates shall be 6 1/4" high and 15 3/4" long, and shall have embossed

thereon a designating class letter 3 1/2" in height with stroke 1/2" in width and numerals 3 1/16" in height with stroke 3/8" in width, followed by an embossed oval seal, which shall be 2 1/4" in height and 2 3/4" in length and shall have the letters "S C" indented therein, to be 1 1/4" in height with stroke 1/4" in width above the numerals "25", to be 1 1/16" in height with stroke 7/32" in width, with the word "Demonstration" following across the lower portion of plates in letters 3/4" in height with stroke 3/16" in width; such plates shall have a white background, with Shamrock Green colored letters, numerals and embossed surfaces; all of the identical designs and dimensions indicated by blue prints which will be furnished upon application.

These plates shall be made of No. 24 U. S. standard gauge steel, punched for attaching in the standard manner, shall be of the best workmanship, and shall be covered with the best obtainable quality of enamel, guaranteed not to crack, peel off, rust through, or discolor prior to December 31, 1925, and shall have a coat of oil and lead primer applied on both face and back, with two coats of enamel on the background and two coats of enamel on the face of letters and numerals and all embossed surfaces, and each such coat shall be baked separately.

The foregoing described plates to be furnished hereunder are to be delivered to the South Carolina State Highway Department, at Columbia, all charges prepaid on or before November 1, 1924, and shall be shipped in wooden cartons of 100 plates to the carton in such manner as will prevent breakage or loss in transit, packed separately in numerical order in heavy craft envelopes with tension string fastener, and such envelopes shall be of the duplex type with small pouch for the insertion of mailing label, and shall have the designating letter and number of the plate enclosed, together with other necessary matter as may be specified printed on the outside thereof. Payment to be made from legislative appropriation about March 1, 1925.

Detailed schedule enumerating quantities and stipulating numbers to be supplied under the designating letters may be had upon application to the undersigned.

The Commission reserves the right to increase as much as 25% the quantity of plates to be supplied, if so much be needed, at any time prior to December 31, 1925, and any such additional quantities shall be delivered within thirty days from the date of order.

Bond in a reliable surety company satisfactory to the Commission, in the penal sum of \$5000 will be required to be furnished within fifteen days after contract is awarded.

The Commission reserves the right to reject any or all bids and to waive all technicalities.

L. H. THOMAS,
Secretary South Carolina State Highway Commission.

**MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES****NORTHWEST GEORGIA.**

The scene of the next great industrial development in Georgia. Electric power available. Large power plants under construction.

For industrial sites; pine and hardwood timber; brick shales; clays; large or small water powers; farms in a prosperous section. Write, with detail, as to your requirements.

C. E. VANCE, Calhoun, Georgia.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line, *When the advertisement contains a number of long words, proper allowance should be made.* Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

IRON AND FLUOR SPAR MINES for lease or sale; also fullers earth properties.
W. S. LOWERY,
Salem Star Route, Marion, Ky.

PUMICE. A large deposit of high grade pumice close to main line railway. If interested in purchase of this commodity or development of the deposit address
POST OFFICE BOX 881,
Albuquerque, New Mexico.

PHOSPHATE MINE

FOR SALE OR EXCHANGE—Phosphate Mine estimated Half Million tons 75% rock. Complete plant. Will price as whole or royalty. Figures Realty Co., Columbia Tenn.



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

GRANITE QUARRY

FOR SALE—Large undeveloped granite quarry near Little Rock on railroad switch, consisting of 280 acres, almost solid granite, can be had very cheap. POLK-BOURNE REAL ESTATE COMPANY, 320 Boyle Building, Little Rock, Arkansas.

TIMBER AND TIMBER LAND

VIRGINIA SPRUCE FOR SALE—Tazewell County, Virginia, one thousand acres fine spruce, will cut close to 20,000,000 feet; trees tall, will cut six 16-foot logs to tree; six miles from railroad across mountain or 12 miles around mountain; good roads. For further particulars write SHAMOKIN LUMBER AND MANUFACTURING CO., Shamokin, Pa.

FARM, FRUIT, AND TRUCK LANDS

ALABAMA

WRITE US TODAY about small chicken and truck farms near Muscle Shoals, Ala. We have a big tract; are cutting same up in small farms. Will sell improved or unimproved. Easy terms Rosemary Pine Lumber Co., 116 N. Front St., Memphis, Tenn.

FLORIDA

FOR SALE—50 A bearing Orange Grove. Estimated crop for coming season 15,000 boxes. Located 3 miles from Leesburg on Lake Harris. No better location in Florida. If interested write for full information and price. B. F. Watts, Leesburg, Fla.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet, "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice, "Since before the war," Tampa, Fla.

EVERGLADE LAND, rich, deep muck soil, five-acre truck farm up to 40,000-acre colonization tracts, million and a half dollar sugar mill near which refined sugar this year. Land adapted to truck, fruit, sugar cane or stock farming. STEWART, HOLLOPETER & McCUNE, Realtors, Miami, Florida.

FOR SALE

Six thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well-drained, over two hundred feet above sea level; fine lakes and good fishing and hunting; will take \$12.50 per acre; other land in same vicinity has been selling as high as \$200 per acre; this is a good purchase. Will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

LARGE TRACT of the finest citrus lands, together with avocado and truck lands, on one of the highest ridges of Imperial Polk County, Florida, between Haines City and Mountain Lake. On large lake; great tract for development, with townsite on lake already laid off. For prices and terms write P. O. Box 1174, Winterhaven, Fla.

WE OWN 12,000 ACRES of Everglades Muck land. Soil over 10 feet deep. Adjoining lands now under cultivation. Sixteen miles of rock surfaced roads and navigable canals already constructed. This tract fronts on the Cross St. Highway. For sale at an attractive price.

CONSOLIDATED REALTY COMPANY, 223 Clematis Ave. West Palm Beach, Fla.

NORTH CAROLINA

FOR SALE—1800 Acres adapted to growing peaches, dewberries and general farming. Located near Pinehurst, N. C. 1½ million ft. timber. Price cheap, terms easy. Write J. E. Simmons, Box 177, Charlotte, N. C.

VIRGINIA

VIRGINIA APPLE ORCHARD for sale. 2000 bearing trees in excellent condition; located at railroad station. Address G. B. Brown, Stuarts Draft, Va.

FOR SALE—FINE FARM in the Valley of Virginia. Cheap. Ample timber on it to pay for it.

PHILIP GRASTY, Danville, Va.

BUSINESS OPPORTUNITIES

CAPITAL WANTED—To develop town-site; on 640 acres that two railroads and state highways cross on in S. E. Okla., surrounded by coal, oil, gas and farming. J. E. Cavanagh, McAlester, Okla.

PLANING MILL AND CONCENTRATION YARD—Doing wholesale and retail business in town of 20,000 in Alabama. Good territory to draw from with rates that will average saving \$1.00 per thousand. Will sell as whole or in part. Information, write MARBURY MILL & LUMBER CO., Birmingham, Alabama.

SUBSTANTIAL MANUFACTURING COMPANY wants capable man to open office and manage salesmen; \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW, Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

FOR SALE—FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed; good title. A great place for sport. G. M. Thomas, Marianna, Fla.

I SPECIALIZE in industrial, warehouse and business sites at or near Tampa, Florida, the seventh largest port in the United States. Jasper Walker, P. O. Box 674, Tampa, Florida.

FILTER SAND USERS—We are offering for filter purposes 98½% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request. EVANS SAND CO., ELLIOTT, S. C.

FOR SALE—Nice home, 600-acre farm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year; also good fishing and hunting as there is in the State; fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna, Fla.

FOR SALE—Modern Machine Shop and Pressed Metal Plant, fully equipped and doing nice business. All tools in good condition. Suitable for manufacturing or job work. Reasonable rent. Address M. J. Cohen, 326 South Fifth street, Richmond, Va.

WANTED—PRODUCT TO MANUFACTURE during the Winter and Spring months when canning factory is idle. Situated on Virginian and N. & W. Railroads. Equipment includes 40 H. P. steam boiler, 5 H. P. upright engine, four 36x36 cooking tubs, crane and other fixtures. Plenty of electric power within 100 feet of factory. Pembroke Canning Co., Pembroke, Va.

FOR SALE—Fifty-four room modern hotel, completely furnished, in thriving city of 7500 population. Has two railroads and on Lee Highway, in one of the best farming and grazing sections of Southwest Va. In and around this thriving city are the rich coal fields and iron deposits of Southwest Va. This city has furnaces and manufacturing plants and is noted as a furniture manufacturing center. Hotel has three store rooms and can arrange to have five store rooms besides lobby, dining room and kitchen on first floor. Three stories high and of solid brick construction. This valuable property can be bought at a reasonable price and on good terms. Address E. R. Shipley Land Auction Co., Anything in Real Estate, Bristol, Va.

INDUSTRIES WANTED

SPECIAL INDUCEMENT offers small factories located in Van Wert, Ohio; plenty of labor, lowest tax rate, best transportation. Address Chamber of Commerce, Van Wert, Ohio.

INMAN, S. C. wants industries, large and small. Good climate, good labor conditions, electric power, water. Will offer inducements to assist in location of good industries. Write Secretary Chamber of Commerce.

INDUSTRIES WANTED

THE NEW TOWN, SCHRIEVER, LOUISIANA, was denominated "The 100% Town" by a magazine writer the other day. That is proper, for every business in the place is making money; even the postmaster wears continually a prosperity smile. With a distinctive purpose to advertise the place, everyone is painting his building white. Already it is known as the White City. Schriever lacks 9 days of being 4 months old, but it is the firmly-established civic center of a prosperous, productive district, which is thickly settled with a citizenry bred to work and economy. One thousand automobiles pass over the fine highways through Schriever every day. The graphically told history of romantic Schriever mailed on request. Association of Industries, Schriever, Louisiana.

FREE FACTORY SITES and a remission of taxes for a period of years will probably be offered to the right kind of an industry coming to this city, a financial center, second ranking port of U. S. Enormous quantities of raw materials pass through here, splendid climate, summer and winter resort, plenty of labor, low freight rates to the interior and Atlantic Seaboard ports. This Chamber of Commerce will actively support the right kind of financial proposition bringing new industries here. Write Industrial Manager.

CHAMBER OF COMMERCE
Galveston, Texas.

INDUSTRIAL PLANTS

FOR SALE—The Mo-Jo Filter Mfg. Co.'s plant, buildings, large lot, machinery, stock on hand, patent. Address MO-JO FILTER CO., Rockdale, Texas.

BRICK MANUFACTURING PLANT. For sale or lease. Low price and easy terms. U. H. DAVENPORT, Athens, Georgia.

If interested in buying
A SOUTHERN COTTON MILL
Write to
F. C. ABBOTT & COMPANY
Charlotte, N. C.
26 years' experience in Southern Mill Stocks.

MODERN CONCRETE AND BRICK one-story building; fifteen thousand feet floor space; one and half acres ground. On railroad near Potomac Yards. Graham & Ogden, Alexandria, Virginia.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 644 G St. N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing inventions. Send model or sketch and description of your invention for our free Examination and Instructions. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chand-lee, 412 7th St. N. W., Washington, D. C.

AGENCIES WANTED

MANUFACTURERS AGENCY wishes to hear from Manufacturers desiring agent in this territory. E. J. O'Callaghan, P. O. Box 539, Charleston, S. C.

DEVELOPMENT, PUBLICITY, technical service and sales engineering; academic and technical education and 15 years' experience in materials engineering and allied professional work; now engaged in New York, removing to West Coast about August 1st., headquarters Seattle, branch connections San Francisco, Los Angeles, Canadian Northwest and Orient; your immediate correspondence invited. Address No. 6347, care Manufacturers Record.

AGENCIES WANTED

OLD, WELL-ESTABLISHED COMPANY in Charlotte, N. C., wants to represent manufacturers of mill supplies and general machinery. Address No. 6344, care of Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

ENGINEER-SALESMAN, graduate engineer, experienced designer, estimator and executive desires position with a reliable manufacturer or business concern as salesman or office assistant where a knowledge of engineering would be helpful. References. Address No. 6345, care Manufacturers Record, Baltimore, Md.

WANTED—Position as superintendent of water and light plant, have had nine years experience. Can make any kind of repairs, can do line construction, lay water and read meters. Address 203 East 5th St., Jacksonville, Fla.

MEN WANTED

SALARIED POSITIONS \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

AN EASTERN LEATHER BELT manufacturer is desirous of securing an experienced Belt salesman for the South. Good salary or salary and bonus; excellent opportunity for right man. Address No. 6346, care Manufacturers Record, Baltimore, Md.

MEN WANTED

WANTED High Class Engineer capable of designing and taking off reinforcing steel quantities and making up, placing diagrams for same; also who can make up a complete quantity survey of all materials for fire-proof buildings. Must be experienced, accurate and must furnish reference. Permanent position to right party and will consider giving salary and share in profits. Must be single and not over 35 years old and American born. Address Box 91, Bluefield, W. Va.

LOCUST INSULATOR PINS

FOR SALE CHEAP—40,000 No. 2 Grade Locust Insulator Pins $1\frac{1}{2} \times 9$ in. Average samples submitted on request. Buchanan Locust Pin Co., Inc., Buchanan, Virginia.

MACHINERY AND SUPPLIES

FOR SALE—ONE FOUR-MOULD "Berg" brick dry press and one 9-ft. dry pan Address L. C. HALL, Dardanelle, Ark.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



SALE—ELECTRICAL PLANT AND EQUIPMENT

On July 9, 1924, at Hopewell, Virginia, the entire manufacturing plant, with everything pertaining thereto, of the Hopewell Insulation & Mfg. Co., Inc., will be sold under court decree. The property includes land, buildings, machinery, dies, patents and formulae, office fixtures, material, etc.

For terms and particulars write,

JAMES O. HEFLIN, Commissioner
HOPEWELL, VIRGINIA

FLORIDA WANTS YOUR INDUSTRY

If you are contemplating the location of or investment in any industry in Florida or desire to make investment in lands, developments or any business in Florida. Have your investigations and certified reports made by registered Florida engineers who are residents and familiar with all local conditions. Each dollar invested in a report may save you hundreds.

Associate Engineers in Every County

Florida Associated Engineers

Bus Terminal Building, 25-27 W. Central Ave., ORLANDO, FLA.



RESALE DEPARTMENT



MACHINERY

EQUIPMENT

SUPPLIES

GENERATING PLANT

Complete plant or any part

- 1—750 and 1—1500 k.w. turbo-generators, G. E. 3 ph., 60 cye., 2300 v., with switchboard panels and cables, also surface condensers.
- 2—500 and 2—380 h.p. Stirling boilers operating 160 lbs. with Detroit and Green stokers. Pumps, coal conveyor, piping, etc. General specifications and drawings upon request.

FOR SALE BY THE OWNER.

Address: W. C. BAILEY, Cons. Engr.
38-12th Avenue COLUMBUS, OHIO

WANTED

- 1—2000 to 3000 ft. air compressor, either steam, electric or belt driven. Must be of late type.
- 3—8"x10" or 10"x12" two drum hoisting engines complete with boilers and swingers.
- 4—14' iron bull wheels.
- 1—12 to 15 ton 8 wheel locomotive crane with 50' boom.

Give full particulars in first letter, otherwise you will not be considered. All of the above must be in first-class condition.

R. E. SUGGS

1516 Healey Bldg., ATLANTA, GA.

WANTED

Two drum and swinger or three drum skeleton steam hoists or with A.S.M.E. boilers and
Two drum and swinger or three drum electric hoists 25 to 50 H.P. motors.

MALLORY MACHINERY CORP.
522-524 Light St. Baltimore, Md.

Place your orders for the
1924 Edition of the
BLUE BOOK
OF
SOUTHERN PROGRESS
Single Copies 50c.

ELEVATORS

- 1—Otis freight elevator, 3,000 lbs. capacity, 81 foot travel, car 11'7" x 7'11" and 12'9" under beam. Speed of travel 80 ft. per minute. Otis elevator engine with 7½ H.P., 440 volt motor.
- 1—Otis freight elevator, 6,000 lbs. capacity, 36'2" of travel, rate 60 ft. per minute. Platform 10'x10'2". Engine Otis high efficiency gear type with drum and Otis No. 10 motor. Car frame built of steel channels and angles.

Write for prices and specifications.

NASHVILLE INDUSTRIAL CORP.
Old Hickory, Tennessee

125 H.P. ECONOMIC BOILERS

- 2—"Erie City Iron Works" Double Butt Strapped, Triple Riveted. Splendid condition.

CONCRETE MIXERS

- 25—Standard makes, 4 to 21 ft. capacity. Good condition at half price.

IRON AND WOODWORKING MACHINERY
CONTRACTORS AND ELECTRICAL EQUIPMENT

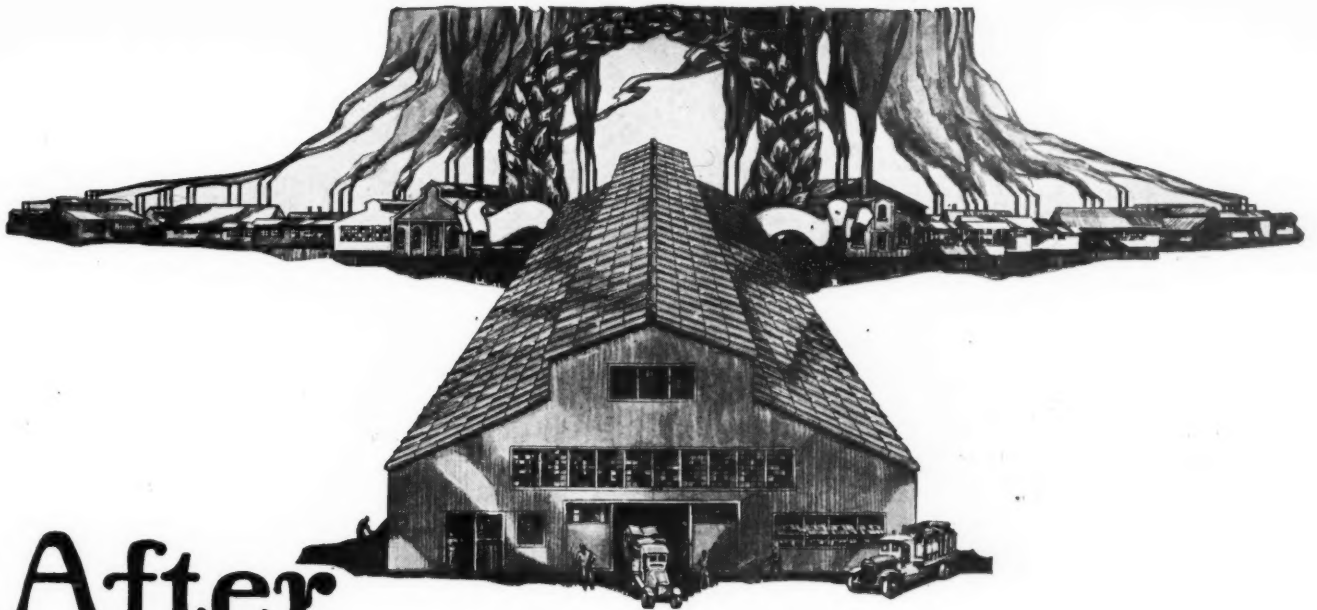
L. F. SEYFERT'S SONS, Inc.
437 N. 3d Street Philadelphia, Pa.
MACHINERY MERCHANTS SINCE 1878

Cotton Drying Apparatus

- 20—No. 24 six section 8' Sargent cotton dryers.
- 20—48" Sargent Mixing pickers.
- 20—Special Sargent cotton washers or rinsers.
- 20—Sargent 48" Model "M" feeders for Sargent Dryers.
- 8—Noble and Wood concentrators, 44" diameter, 42" length.

Write for prices and specifications.

Nashville Industrial Corp.
Old Hickory, Tennessee



After

exhaustive investigation, delving for facts on roofings and keeping close record of "Cementile" installations, we arrive at the following conclusion:

CEMENTILE

The Roof Everlasting

is not only the ideal roof for all buildings with steel roof supports, but according to investigations, is absolutely the best roof. Ask us to prove the last statement. Use the coupon below.

American Cement Tile Mfg. Co.

830 Oliver Building, Pittsburgh, Pa.

PLANTS: Wampum, Pa. - Lincoln, N. J. - Birmingham, Ala.

OFFICES: Pittsburgh - New York - Philadelphia - Atlanta - Birmingham

"I'm from Missouri"



"Show Me"

Company..... Individual.....

Address

City

State.....





Before—
Worth \$500.

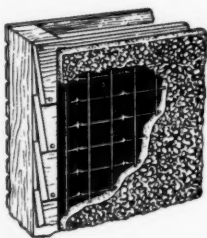


After—
Sold for \$27,000.



New Homes *from* Old Houses

With a *REINFORCED STUCCO* "Overcoat"



National Steel Fabric Style P-214 is a base and reinforcement for stucco and plaster—it combines 5 building materials into 1; namely, sheathing, building paper, lath, "furring" strips, and reinforcement.

It is applied either direct to studs or over siding, clapboards, sheathing, or insulation, in large sheets by one man in one operation.

The remodeled home illustrated above was sold for \$27,000 several months after the owner had been offered \$500 for wrecking and removing the old house.

He simply remodeled it in National Steel Fabric Reinforced Stucco at a cost of \$1,080, and added a new heating system, hardwood floors, and a breakfast room, at a cost of \$4,000. His profit on the transaction was \$21,920.

The advantages of National Steel Fabric Style P-214 in "overcoat" work, are:

1. Lowest cost of remodeling.
2. Prevents "dry-outs."
3. Automatically "back-plasters" itself.
4. No rebuilding of door and window frames.
5. It is a true reinforcement.
6. It cannot be "skinned."
7. It is galvanized.
8. It assures permanent walls.

Everywhere there are numberless old, roomy houses, built in the era of good workmanship and materials but with poor exterior design. If you are interested in making new homes from such old houses, write for our free special Bulletin entitled "New Homes From Old Houses," which will be ready for distribution shortly.

National Steel Fabric Company
(Subsidiary of Pittsburgh Steel Company)

702 Union Trust Bldg.

PITTSBURGH, PA.

OFFICES: Atlanta, Boston, Chicago, Cleveland, Denver, Detroit, Houston, Los Angeles, New York City, Philadelphia, Pittsburgh, Rochester, St. Louis, San Antonio, San Francisco.

Use National Steel Fabric Style P-214

NATIONAL STEEL FABRIC CO

